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**Area of Concern #1
Additional Soil Investigation Report
ACEH Case #RO0002941 and
Geotracker Global ID #SLT19719376
Former Hanson Aggregates Radum Facility
3000 Busch Road
Pleasanton, Alameda County, California**

**February 12, 2010
EM009567.0010**

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

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

February 12, 2010

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

Subject: Area of Concern #1 Additional Soil Investigation Report, ACEH Case #RO0002941 and Geotracker Global ID #SLT19719376, Former Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California

Dear Mr. Wickham:

The attached Area of Concern #1 Additional Soil Investigation Report was prepared by LFR Inc. an ARCADIS company (LFR) on behalf of Lehigh Hanson West Region (“Hanson”) for the former hot mix asphalt plant area of the former Hanson Aggregates Radum Facility located at 3000 Busch Road, Pleasanton, California.

The additional investigation was conducted in accordance with the “Work Plan for the Excavation of Petroleum Hydrocarbon-Affected Soil at the Former Hot Mix Asphalt Plant Area (AOC #1)” submitted to Alameda County Environmental Health (ACEH) on March 21, 2008 and approved by ACEH on October 14, 2009. On January 25 and 26, 2010, six temporary soil borings were advanced to depths ranging approximately from 8 to 11.5 feet below ground surface (bgs) to screen for the potential presence of petroleum hydrocarbons and to collect soil samples for laboratory analyses. Results from the investigation showed that elevated total petroleum hydrocarbons (TPH) concentrations were detected in three soil samples. Based on these results, three new soil excavation areas were defined to remove TPH-affected soil to a maximum depth of 8 feet bgs to be protective of human health.

This report presents the methods and findings of this most recent subsurface characterization investigation, and presents a summary of the proposed soil excavation areas for AOC #1, based on this and previous characterizations.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Area of Concern #1 Additional Soil Investigation Report, ACEH Case #RO0002941 and Geotracker
Global ID #SLT19719376, Former Hanson Aggregates Radum Facility, 3000 Busch Road,
Pleasanton, California
February, 2010
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If you have any questions or comments concerning this Additional Soil Investigation Report,
please call me at (925) 244-6584 or Katrin Schliewen of LFR at (510) 652-4500.

Sincerely,



Lee W. Cover
Environmental Manager
Hanson Aggregates Northern California

Attachment

cc: John Rigter, Livermore-Pleasanton Fire Department
Bill Butler, Hanson Aggregates
Katrin Schliewen, LFR

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CERTIFICATIONS

ARCADIS U.S., Inc., has prepared this Additional Soil Investigation Report for Area of Concern #1 of the Former Hanson Aggregates Radum Facility, located at 3000 Busch Road, Pleasanton, California, on behalf of Lehigh Hanson West Region in a manner consistent with the level of care and skill ordinarily exercised by professional geologists and environmental scientists. This report was prepared under the technical direction of the undersigned California Professional Geologists.

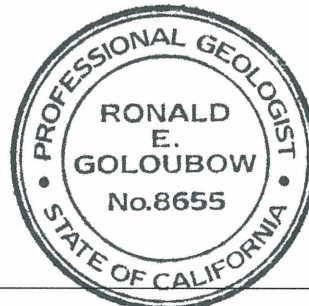


Expires Feb. 28, 2011

February 12, 2010

Date

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February 12, 2010

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EXECUTIVE SUMMARY

This Additional Soil Investigation Report presents the methods and findings of subsurface characterization activities conducted by LFR Inc. an ARCADIS company (LFR) in the former hot mix asphalt plant area of the former Hanson Aggregates Radum Facility (“the Site”) during January 2010. The primary objective of the subsurface investigation was to further characterize the lateral and/or vertical extent of petroleum hydrocarbons in soil in the southeast and northeast of the former hot mix asphalt plant area. The investigation was conducted in accordance with the scope of work described in the “Work Plan for the Excavation of Petroleum Hydrocarbon-Affected Soil at the Former Hot Mix Asphalt Plant Area (AOC #1)” submitted to Alameda County Environmental Health (ACEH) on March 21, 2008 (LFR 2008c) and subsequently approved by ACEH on October 14, 2009 (ACEH 2009c).

Six temporary soil borings (B26 through B41) were advanced on January 25 and 26, 2010 to depths ranging approximately from 8 to 11.5 feet below ground surface (bgs) to collect depth-discrete soil samples for laboratory analyses. Analytical results for three soil samples indicate that total petroleum hydrocarbons (TPH) as diesel and TPH as motor oil are present at concentrations that exceeded San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels. Based on these results, three new soil excavation areas are proposed to remove TPH-affected soil. In accordance with the Revised Closure Plan, confirmation soil sampling will be conducted during soil excavation activities to confirm that TPH-affected soil has been effectively removed.

No additional subsurface characterization activities are necessary or are proposed; the Site has been sufficiently characterized. Based on results from this and all previous investigations, twelve areas have been identified for soil excavation to depths ranging approximately from 2 to 8 feet bgs. As described in more detail in the Revised Closure Plan, in addition to soil excavation, selected surface features are proposed to be removed; confirmation soil sampling will also be conducted beneath features that will be removed.

After soil excavation and surface features removal activities are completed, the property will be available to Legacy Partners for acquisition consideration. The property is currently zoned for commercial and light industrial land use. As noted by ACEH, if appropriate, a land use covenant may be added to the deed of this property to prohibit the use of shallow groundwater immediately beneath the Site.

1.0 INTRODUCTION

This Additional Soil Investigation Report presents the methods and findings of subsurface investigations conducted by LFR Inc. an ARCADIS company (LFR) on behalf of Hanson Aggregates Northern California in the former hot mix asphalt plant area of the Hanson Aggregates Radum Facility located at 3000 Busch Road, Pleasanton, California (“the Site”; Figure 1). The former hot mix asphalt plant area has been designated as Area of Concern #1 (AOC #1; Figure 2).

The subsurface investigation was conducted in accordance with the scope of work described in the “Work Plan for the Excavation of Petroleum Hydrocarbon-Affected Soil at the Former Hot Mix Asphalt Plant Area (AOC #1)” submitted to Alameda County Environmental Health (ACEH) on March 21, 2008 (LFR 2008c). The ACEH, as the regulatory agency overseeing the environmental characterization of the Site under ACEH case number #RO0002941 (Geotracker Global ID #SLT19719376), approved the work plan on October 14, 2009 (ACEH 2009c).

The primary objective of the subsurface investigation was to further characterize the lateral and/or vertical extent of petroleum hydrocarbons in soil in the southeast and northeast of the former hot mix asphalt plant area to determine whether additional soil excavation areas will be required to remove affected soil. On January 25 and 26, 2010, LFR advanced six temporary soil borings (B36 through B41) to depths ranging approximately from 8 to 11.5 feet below ground surface (bgs) to collect depth-discrete soil samples for laboratory analyses (Figure 3).

This report summarizes field activities performed at the Site during January 2010, presents and discusses the results of the field activities, and proposes additional soil remediation activities to remove shallow soil affected by total petroleum hydrocarbons (TPH).

2.0 INVESTIGATION METHODOLOGY

2.1 Pre-Field Activities

LFR applied for and received the appropriate soil boring drilling permit from Zone 7. Based on the drilling locations, no other permits were required for the proposed activities. A copy of the approved soil boring permit is included in Appendix A.

LFR notified Underground Service Alert (USA) to identify any public underground utilities located in the vicinity of the proposed drilling locations; no utility alerts were received. LFR also subcontracted a private underground utility locator to clear all proposed drilling locations using geophysical location methods. All proposed drilling locations were cleared satisfactorily; proposed location B40 was moved north approximately 15 feet based on the private utility clearance findings. Where soil

conditions permitted, the upper 5 feet of soil borings were advanced using a hand-auger as an additional precaution against encountering underground utilities.

The existing site-specific Health and Safety Plan (HSP) previously prepared by LFR for subsurface investigations was updated to address health and safety concerns specific to the planned field activities. A health and safety tailgate meeting was conducted prior to beginning fieldwork, and fieldwork was monitored to ensure that appropriate health and safety procedures were followed during the field investigations.

2.2 Drilling

LFR subcontracted PeneCore Drilling, of Woodland, California, a state-certified drilling subcontractor, to advance six temporary soil borings on January 25 and 26, 2010, to depths of approximately 8 to 11.5 feet bgs using direct-push drilling technology. The locations of soil borings B36 through B41 are shown on Figure 3.

During drilling, continuous soil cores were collected for lithologic evaluation, field screening using a portable photoionization detector (PID), and visual evaluation for the potential presence of petroleum hydrocarbons. Field boring logs were prepared by an LFR field geologist for each soil boring location. Lithologic descriptions were based on the Unified Soil Classification System (American Society for Testing and Materials [ASTM] D2488-00). Soils encountered during drilling consisted predominantly of coarse-grained sediments, generally ranging from silty sands to sandy gravels. Field observations and PID readings were recorded on the lithologic boring logs, copies of which are included in Appendix B.

Depth-discrete soil samples were collected for laboratory analyses from intervals selected based on field screening results for the possible presence of TPH. Where no indication of contamination was observed in the soil cores, depth-discrete soil samples were collected as requested by the ACEH from approximately 1.5, 3, 5, and 8 feet bgs. Soil sample intervals also were dependent on soil core availability because less than 100% of the continuous cores were retrieved at each location.

Downhole drilling and soil sampling equipment was appropriately cleaned with high-pressure hot water (steam cleaned) before use at each new drilling location. After soil samples were collected, each borehole was abandoned by sealing it with a mixture of cement and bentonite (“grout”) from the bottom up to the ground surface poured directly into the borehole because groundwater was not present. A grout inspector from the Zone 7 Water Agency witnessed the soil boring abandonment activities at two locations. No waste soil was generated as a result of using the the direct-push drilling method; waste wash water generated during the cleaning of downhole equipment was placed in a properly labeled 55-gallon drum temporarily stored on site for future disposal.

2.3 Soil Sample Collection

Soil samples were collected by driving an acetate tube lined soil sampler into undisturbed soil at each soil boring location. Depth-discrete soil samples were collected from each target interval by cutting the acetate liners that lined the core barrels to the appropriate sample interval and capping and sealing the ends of the liners. The samples were properly labeled and stored in ice-chilled coolers for transport to the analytical laboratory under chain-of-custody protocol.

2.4 Laboratory Analyses

All soil samples were submitted to Test America, a California-certified analytical laboratory located in Pleasanton, California. All soil samples were analyzed for the following parameters (note that the deepest soil samples from each location were placed on hold pending analytical results of the shallower samples):

- TPH as diesel (TPHd) and motor oil (TPHmo) by U.S. Environmental Protection Agency (EPA) Method 8015B (after undergoing silica gel cleanup)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260B

2.5 Field Documentation

Field activities were documented using the appropriate forms for HSP tailgate meetings, daily field reports, field boring logs, sample labels, and chain-of-custody forms. Field forms will be kept on file at LFR and will be available upon request.

2.6 Soil Boring and Well Location Survey

LFR subcontracted Kier & Wright Civil Engineers & Surveyors, Inc., a licensed land surveyor to survey the location of temporary soil borings. The soil boring locations presented on Figures 3 and 4 are based on the land survey results.

3.0 RESULTS OF ADDITIONAL CHARACTERIZATION INVESTIGATION

3.1 Analytical Results

Analytical results for soil samples collected in January 2010 at the Site are summarized in Table 1 and presented on Figure 3. The data presented is based on the certified analytical report included in Appendix C. Analytical results were compared to the May 2008 San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) for shallow soils beneath commercial/industrial land use areas where water is a current or potential source of drinking water (RWQCB 2008). Compounds detected at concentrations that exceed the ESLs are highlighted in Table 1 and on Figure 3.

The results of the January 2010 soil investigation confirm that the primary compounds of concern detected in soil at this Site are TPHd and TPHmo; BTEX compounds were not present above laboratory reporting limits in any of the soil samples collected. Only results that exceeded the ESLs are discussed further. Three soil samples contained TPHd and/or TPHmo at concentrations that exceeded the ESLs:

- B37 (soil sample collected from 1 to 1.5 feet bgs);
- B39 (soil sample collected from 2.5 to 2 feet bgs); and,
- B40 (soil sample collected from 5 to 5.5 feet bgs).

Based on these results, none of the soil samples initially put on hold were analyzed. In the case of soil borings B37 and B39, deeper soil samples were originally analyzed and did not contain TPHd/mo concentrations that exceeded the ESLs, therefore no additional refinement of future soil excavation plans was needed at these locations. In the case of soil boring B40, the next deeper soil sample was collected from approximately 10 to 10.5 feet bgs, which was deeper than the maximum depth that would be excavated for soil remediation at this Site (e.g., 8 feet bgs); no refinement in the proposal soil excavation depth would be forthcoming from analyzing the 10.5-foot sample. No soil sample was collected between 5.5 and 10 feet bgs from soil boring B40 because of insufficient soil core recovery during drilling and soil sampling.

3.2 Proposed Soil Excavation Areas

Based on the results of soil samples collected from soil borings B36 through B41, three new areas are proposed to be excavated to remove TPH-affected soil to a maximum depth of 8 feet bgs. The proposed areas for soil excavation throughout the Site, including the three new areas identified based on results from the January 2010 soil characterization activities, are shown of Figure 4.

The three new areas are located approximately surrounding former soil borings B37, B39, and B40. The proposed depth of each excavation is based on the analytical results. The proposed lateral extent of each excavation at this Site has been estimated to be approximately 20 by 20 feet. For the areas at former borings B37, B39, and B40, the proposed lateral extents were modified somewhat to accommodate adjacent surface features that currently are proposed to remain in place (outlined in green on Figure 4). As discussed in more detail in the Revised Closure Plan submitted on January 29, 2010 (LFR 2010), confirmation sampling will be conducted in each excavation to confirm the lateral and vertical extents of the excavations. The analytical results of the confirmation soil samples will be used to determine if excavations need to be expanded or if the limits of the excavations are adequate.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Six temporary soil borings were advanced approximately in the southeast and northeast of the former hot mix asphalt plant area. Laboratory analysis results of soil samples collected from former soil borings B36 through B41 indicate TPHd and TPHmo concentrations exceeded ESLs in three soil samples collected from borings B37, B39, and B40. Based on results from this additional soil characterization, three new areas are proposed to be excavated to remove TPH-affected soil. In accordance with the Revised Closure Plan, confirmation soil sampling will be conducted during soil excavation activities to confirm that TPH-affected soil has been effectively removed.

No additional subsurface characterization activities are necessary or are proposed; the Site has been sufficiently characterized. Based on results from this and all previous investigations, twelve areas have been identified for soil excavation to depths ranging approximately from 2 to 8 feet bgs. The proposed soil remediation activities through soil excavation to approximately 8 feet bgs are designed to be protective of the human health of workers both during construction and after land development. As described in more detail in the Revised Closure Plan, selected surface features are proposed to be removed. Confirmation soil sampling will be conducted during the localized soil excavation activities to serve as confirmation that TPH-affected soil is properly removed from the Site. Confirmation soil sampling will be conducted beneath surface features removed as part of site closure to confirm that no additional soil excavation is required.

After soil excavation and surface features removal activities are completed, the property will be available to Legacy Partners for acquisition consideration. The property is currently zoned for commercial and light industrial land use. As noted by ACEH, if appropriate, a land use covenant may be added to the deed of this property to prohibit the use of shallow groundwater immediately beneath the Site.

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, expressed 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 percent 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.

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- . 2008. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater (Interim Final – November 2007; Revised May 2008); Environmental Screening Levels (“ESLs”). Technical Document. May.

- TRC. 2003. Workplan, Self-Directed Soil Remediation, Pleasanton Site; Kiewit Construction / Hanson Aggregates Mid-Pacific, 3200/3000 Busch Road, Pleasanton, California. September 15.
- . 2004. Self-Directed Remediation of Diesel Contaminated Soil; Kiewit Construction / Hanson Aggregates Mid-Pacific Inc., 3200/3000 Busch Road, Pleasanton, California. January.
- U.S. Environmental Protection Agency. 1989. Risk. *Risk Assessment Guidance for Superfund, Human Health Evaluation Manual, Part A*. Interim Final. December 29.
- . 1996. Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures; Ground Water Issue EPA/540/S-95/504. April.
- Zone 7 Water Agency, Alameda County Flood Control and Water Conservation District (Zone 7). 1998. Groundwater Protection Ordinance Permit Application; Permit No. 98024 for location number 3A/1E 15F4. February 24.
- . 2007. Annual Report for the Groundwater Management Program, 2006 Water Year, June 14.

Table 1
Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples (January 2010)
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

(Concentrations reported in milligrams per kilogram [mg/kg] or micrograms per kilogram [ug/kg], as noted)

Sample ID	Date Sampled	Sample Interval		Matrix	TPHd (mg/kg)	TPHmo (mg/kg)	B (ug/kg)	T (ug/kg)	E (ug/kg)	X (ug/kg)
		top (feet bgs)	bottom (feet bgs)							
B36-1.5	1/26/10	1	1.5	soil	3.7	<50	<4.9	<4.9	<4.9	<9.8
B36-3	1/26/10	2.5	3	soil	1.1	<49	<4.7	5.1	<4.7	<9.4
B36-5.5	1/26/10	5	5.5	soil	1.2	<50	<4.6	<4.6	<4.6	<9.1
B36-7	1/26/10	6.5	7	soil	-	-	-	-	-	-
B37-1.5	1/26/10	1	1.5	soil	160	290	<4.7	<4.7	<4.7	<9.4
B37-2.5	1/26/10	2	2.5	soil	<0.99	<50	<4.7	<4.7	<4.7	<9.4
B37-5.5	1/26/10	5	5.5	soil	3.6	<50	<5	<5	<5	<9.9
B37-8	1/26/10	7.5	8	soil	-	-	-	-	-	-
B38-1.5	1/26/10	1	1.5	soil	4.2	<50	<4.6	<4.6	<4.6	<9.1
B38-3	1/26/10	2.5	3	soil	2.2	<50	<4.2	<4.2	<4.2	<8.4
B38-5.5	1/26/10	5	5.5	soil	<1	<50	<4.6	<4.6	<4.6	<9.3
B38-7.5	1/26/10	7	7.5	soil	-	-	-	-	-	-
B39-1.5	1/26/10	1	1.5	soil	<1	<50	<4.5	<4.5	<4.5	<8.9
B39-3	1/26/10	2.5	3	soil	920	2,600	<4.4	<4.4	<4.5	<8.8
B39-5.5	1/26/10	5	5.5	soil	42	220	<4.7	<4.7	<4.7	<9.4
B39-7	1/26/10	6.5	7	soil	-	-	-	-	-	-
B40-1.5	1/25/10	1	1.5	soil	8.4	<50	<4.3	<4.3	<4.3	<8.7
B40-3	1/25/10	2.5	3	soil	<1	<50	<4.8	<4.8	<4.8	<9.6
B40-5.5	1/25/10	5	5.5	soil	450	960	<4.7	<4.7	<4.7	<9.4
B40-10.5	1/25/10	10	10.5	soil	-	-	-	-	-	-
B41-1.5	1/26/10	1	1.5	soil	1.3	<50	<4.6	<4.6	<4.6	<9.2
B41-3	1/26/10	2.5	3	soil	<1	<50	<4.5	<4.5	<4.5	<9.0
B41-5.5	1/26/10	5	5.5	soil	<0.99	<49	<4.6	<4.6	<4.6	<9.1
B41-7	1/26/10	6.5	7	soil	-	-	-	-	-	-
ESLs	shallow soils (less than 3 meters)				83	2,500	44	2,900	3,300	2,300

Notes:

feet bgs = feet below ground surface

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

bold indicates that the compound was detected above the laboratory reporting limit.

83 Y boxed values exceed the respective ESL.

"<" = not detected above the laboratory report given

"-" = sample not analyzed

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, May 2008, for Shallow Soils beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

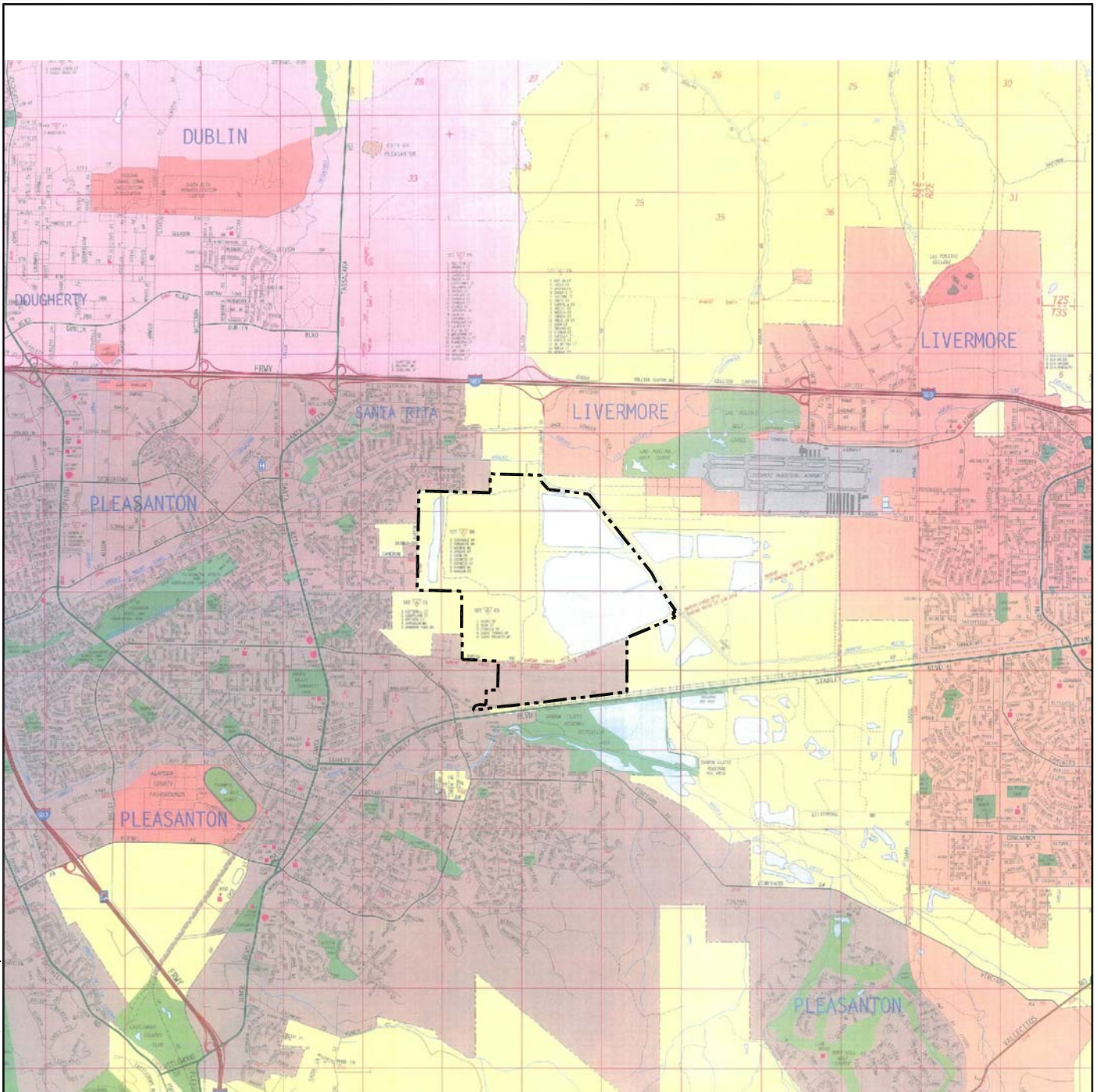
B = benzene

T = toluene

E = ethylbenzene

X = total xylenes

I:\Design\001109567\001.dwg\|Pleasanton Drilling Locations.dwg Jan 20, 2010-2:03pm



Source: Thomas Guide

EXPLANATION

----- Approximate Property Boundary



0 5,000 Feet
 APPROXIMATE SCALE

Location Map

Former Hanson Aggregates Radum Facility,
3000 Busch Road, Pleasanton, California

Figure 1

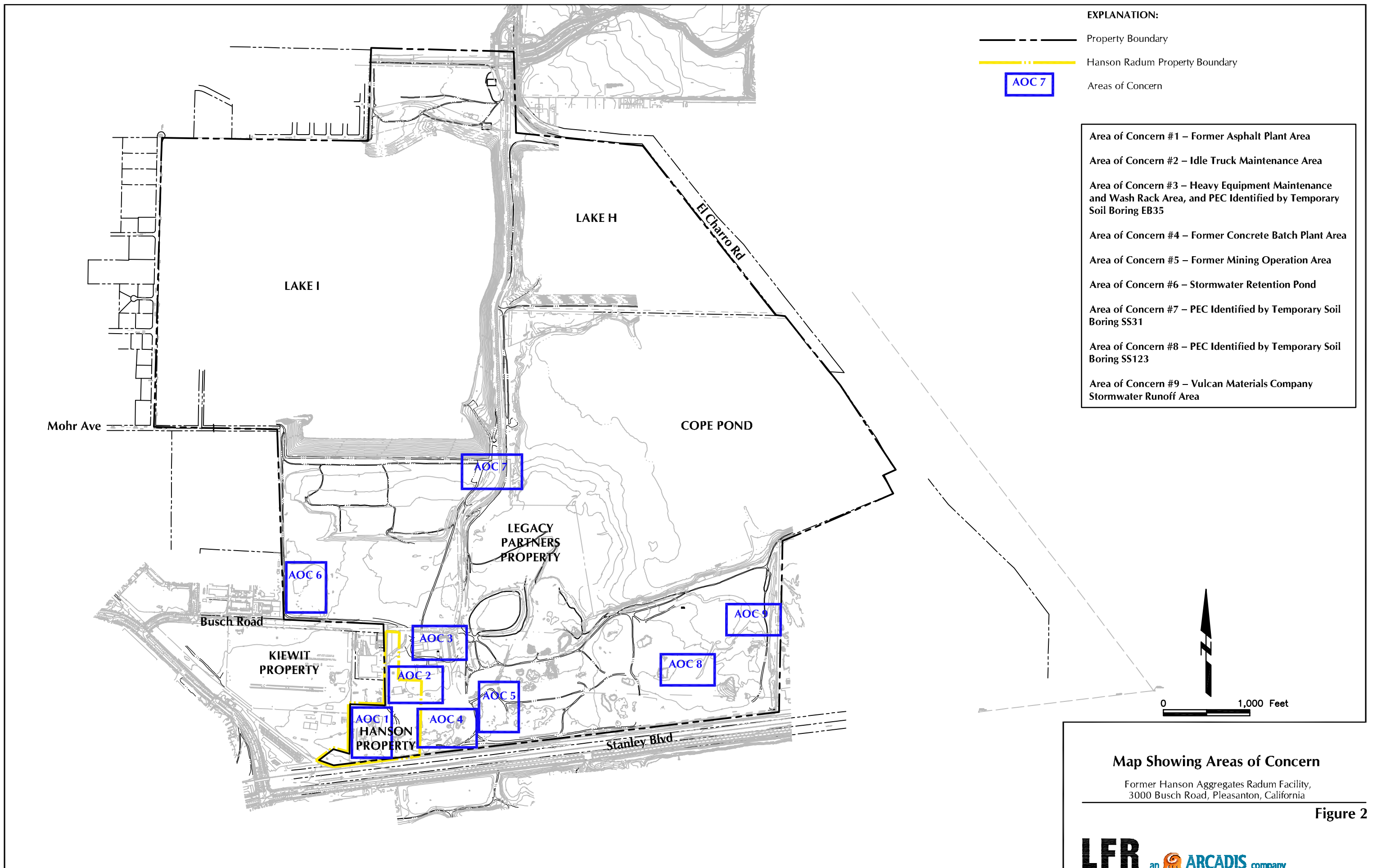
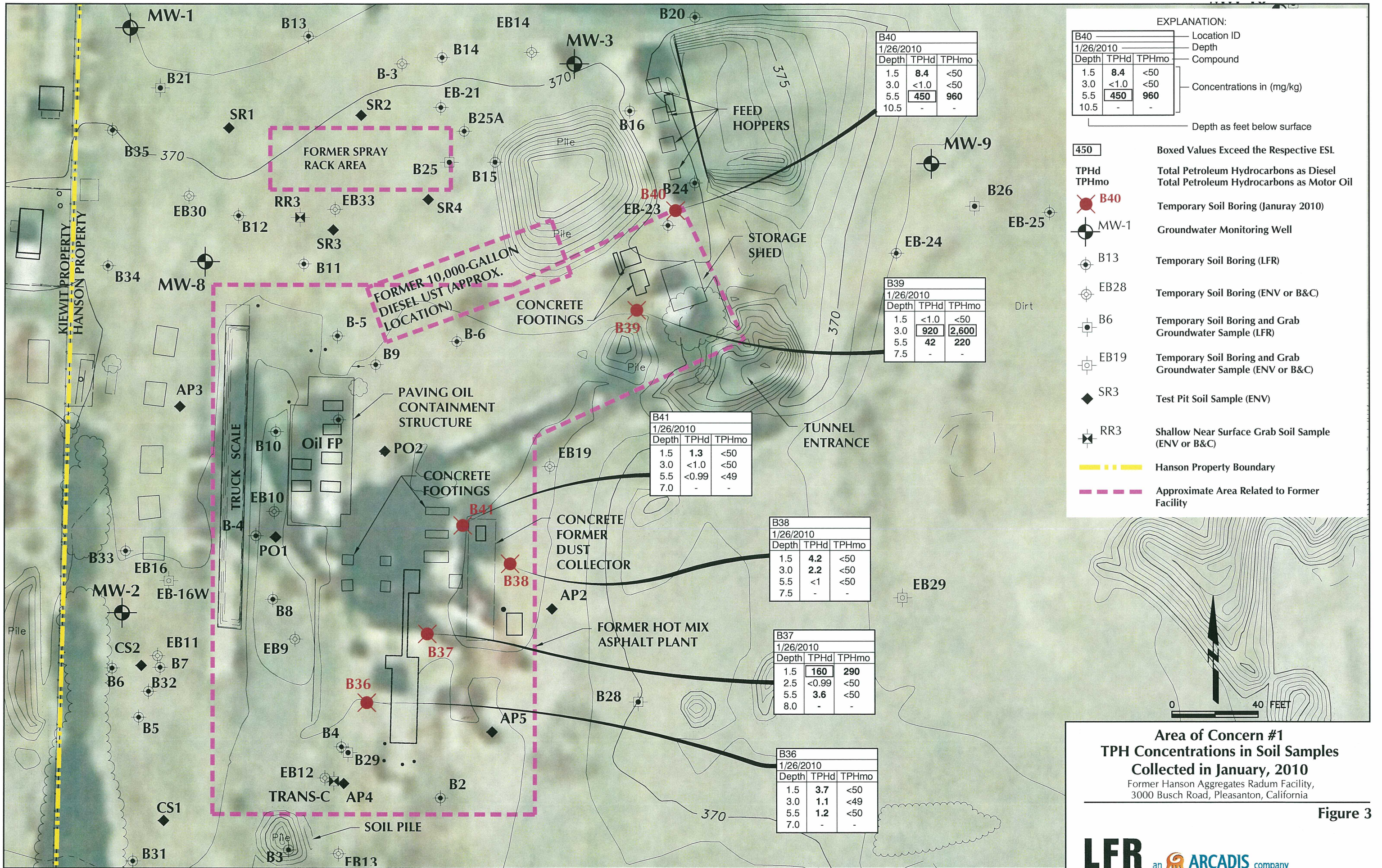


Figure 2



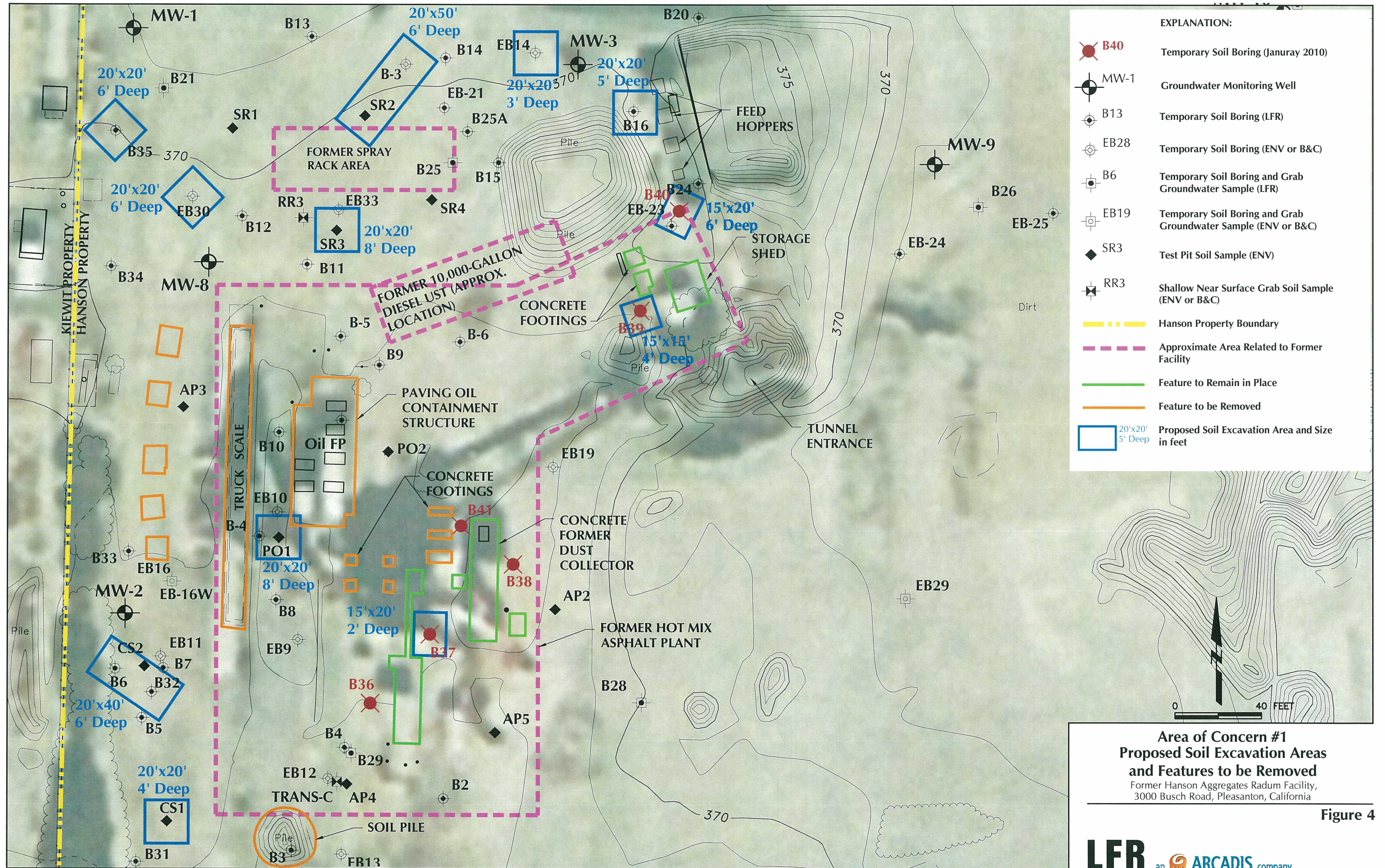


Figure 4

APPENDIX A

Soil Boring Permit



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Former hot mix Asphalt Plant, Hanson Bldg - Area of Concern 2

PERMIT NUMBER 2010006
WELL NUMBER _____
APN 946-1250-019-01

Coordinates Source _____ ft. Accuracy _____ ft.
LAT: _____ ft. LONG: _____ ft.
APN _____

PERMIT CONDITIONS
(Circled Permit Requirements Apply)

CLIENT Name Hanson Aggregates
Address 3000 Busch Road Phone (925) 426-4170
City Pleasanton Zip 94566-0808

- (A) GENERAL**
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.
 3. Permit is void if project not begun within 90 days of approval date.
 4. Notify Zone 7 at least 24 hours before the start of work.

APPLICANT Name ARCADIS
Email michael.sullivan@LFK.com Fax (510) 652-2246
Address 1900 Powell St 12th floor Phone (510) 652-4500
City Emeryville Zip 94608

- B. WATER SUPPLY WELLS**
1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. Grout placed by tremie.
 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:
Well Construction _____ Geotechnical Investigation _____
Well Destruction _____ Contamination Investigation
Cathodic Protection _____ Other _____

PROPOSED WELL USE:
Domestic _____ Irrigation _____
Municipal _____ Remediation _____
Industrial _____ Groundwater Monitoring
Dewatering _____ Other Soil Samples

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.

DRILLING METHOD:
Mud Rotary _____ Air Rotary _____ Hollow Stem Auger _____
Cable Tool _____ Direct Push Other _____

DRILLING COMPANY Pene Core Drilling

DRILLER'S LICENSE NO. 906849

- (D) GEOTECHNICAL.** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

WELL SPECIFICATIONS:
Drill Hole Diameter _____ in. Maximum _____
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

SOIL BORINGS: B-36 Through B-41
Number of Borings 6 Maximum _____
Hole Diameter _____ in. Depth 8 ft.

- E. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.

ESTIMATED STARTING DATE 1/25/2010
ESTIMATED COMPLETION DATE 1-25-2010

- F. WELL DESTRUCTION.** See attached.

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68

- (G) SPECIAL CONDITIONS.** Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

APPLICANT'S SIGNATURE [Signature] Date 1-15-09

Approved [Signature] Date 1-19-10
JEFF JONES

ATTACH SITE PLAN OR SKETCH

APPENDIX B

Soil Boring Logs

PROJECT NAME Hansoy
 CLIENT ARCADIS
 PROJECT LOCATION Pleasanton CA
 PROJECT NUMBER _____
 LOCATION AOC1
 OVA EQUIPMENT DID
 GROUND ELEVATION _____ HOLE DIAMETER 2'
 TOP OF CASING ELEVATION _____ HOLE DEPTH 8'
 FIRST ENCOUNTERED WATER _____
 STABILIZED WATER _____
 LOGGED BY McSullivan DATE 1-26-10

LOG OF BORING / WELL B-38
 PAGE 1 OF _____

DRILLING CONTRACTOR Pene Core
 DRILLING METHOD Direct Push
 STAMP (IF APPLICABLE) AND/OR NOTES

DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS	LITHOLOGIC DESCRIPTION	PID or OVA (ppm)	DEPTH (feet)
						0-2'	(SM) silty sand (10R 3/2) Dark Greyish Brown silts - Nonplastic, moist, soft sands - fine to coarse grained, Moist, Loose, sub angular s+b rounded	0.0	
	B36-15 105.5			SM					
	B36-30 1100			GM		2-3'	(GM) silty sandy gravels (10R 4/4) Dark yellowish Brown silts - Non-plastic, Moist, soft sand - fine - coarse grained, moist, loose sub angular, sub rounded	0.0	
5	B36-5.5 1105			GM				0.0	5
	B36-7.0 1110						gravels - 0.5-2" diameter, Loose, sub angular sub rounded	0.0	
10									10
15									15
20									20

BORING+WELL_2006 FIELD BLANK_LFR TEST PROJ AUG2006.GPJ_LFR SEPT 2006.GDT_9/7/06

(Continued Next Page)

APPROVED BY: _____ DATE: _____



PROJECT NAME Housey
 CLIENT ARCADIS
 PROJECT LOCATION Pleasanton, CA
 PROJECT NUMBER _____
 LOCATION AOCI
 OVA EQUIPMENT PID
 GROUND ELEVATION _____ HOLE DIAMETER 2'
 TOP OF CASING ELEVATION _____ HOLE DEPTH 8
 FIRST ENCOUNTERED WATER _____
 STABILIZED WATER _____
 LOGGED BY M. Sullivan DATE 1-26-10

LOG OF BORING / WELL B-37
 PAGE 1 OF _____

DRILLING CONTRACTOR Pene Core
 DRILLING METHOD Direct Push
 STAMP (IF APPLICABLE) AND/OR NOTES

DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS	LITHOLOGIC DESCRIPTION	PID or OVA (ppm)	DEPTH (feet)
						0-0.5 (SM)	silty sand 10yr very dark grayish brown		
	B-37-15 1025	X		SM		0.5-1.0 (SM)	silty sandy gravel silts - Moist, Non Plastic, very soft sand - fine to coarse grained, Moist, loose, sub-angular sub-spherical	0.0	
	B-37-215 1030	X		SM		0.5-6 (GM)	silty sandy gravel (10yr 4/4) Dark yellowish brown silts - Moist, Non Plastic, soft sand - fine to coarse grained, moist, loose, sub angular, subspherical gravels - 0.5" diameter, Loose, sub angular, subspherical	0.0	
5	B-37-515 1035	X		GV		6-12 (GM)	sandy gravel same as above without fines	0.0	5
	B-37-61 1040	X		SM		12-18 (SM)	silty sand (SM) (10yr 4/4) Dark yellowish brown silts - Low plasticity, Moist, medium soft sands - fine - coarse grained, Moist, Loose, sub angular, sub rounded	0.0	
10									10
15									15
20									20

BORING+WELL_2006 FIELD BLANK_LFR TEST PROJ AUG 2006 GPJ LFR SEPT 2006.GDT 9/7/06

(Continued Next Page)

APPROVED BY: _____ DATE: _____



PROJECT NAME Hanson Radon
 CLIENT Arcadis
 PROJECT LOCATION Pleasanton, CA
 PROJECT NUMBER _____
 LOCATION AOC1
 OVA EQUIPMENT PID
 GROUND ELEVATION _____ HOLE DIAMETER 2"
 TOP OF CASING ELEVATION _____ HOLE DEPTH 10.5'
 FIRST ENCOUNTERED WATER _____
 STABILIZED WATER _____
 LOGGED BY MWS DATE 1-20-10

LOG OF BORING / WELL B-38
 PAGE 1 OF 1

DRILLING CONTRACTOR Pencon
 DRILLING METHOD Direct Push
 STAMP (IF APPLICABLE) AND/OR NOTES

DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS	LITHOLOGIC DESCRIPTION	PID or OVA (ppm)	DEPTH (feet)
	B-38-1.3 925	X		SM	0-3.5	0-3.5 (SM) silty Sand (10 YR 4/4) Dark Yellowish Brown silts - low plastic, moist, soft sands.	0.0		
	B-38-30 930	X		GW	3.5-6.5	3.5-6.5 (GW) fine Gravels (10 YR 4/4) Dark Yellowish Brown gravels 0.5" Diameter or less, well sorted, loose, sub angular, sub rounded.	0.0		
5	B-38-5.5 935	X		SM	6.5-	6.5- (SM) same as 0-3.5	0.0	5	
	B-38-7.5 940	X		SM			0.0		
10		X		SM				10	
15								15	
20								20	

BORING+WELL 2006 FIELD BLANK LFR TEST PROJ AUG2006.GPJ LFR SEPT 2006.GDT 9/7/06

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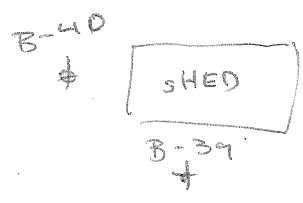
APPROVED BY: _____ DATE: _____



PROJECT NAME Hanson Radon
 CLIENT ARCADIS
 PROJECT LOCATION Pleasanton, CA
 PROJECT NUMBER _____
 LOCATION AOL 1
 OVA EQUIPMENT PID
 GROUND ELEVATION _____ HOLE DIAMETER 2"
 TOP OF CASING ELEVATION _____ HOLE DEPTH 10.5
 FIRST ENCOUNTERED WATER _____
 STABILIZED WATER _____
 LOGGED BY M. Sullivan DATE 1/26/10

LOG OF BORING / WELL B-39
 PAGE 1 OF _____

DRILLING CONTRACTOR Penecon
 DRILLING METHOD Direct Push
 STAMP (IF APPLICABLE) AND/OR NOTES



DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS	LITHOLOGIC DESCRIPTION	PID or OVA (ppm)	DEPTH (feet)
	B-39-15 830	X		SM		0-2.5 (SM) silty sand (10 YR 3/2) Dark greyish Brown silts - Non-plastic, soft, moist	0.0		
	B-39-310 840	X		SM		Sands - fine-coarse grained, moist, loose, sub-angular gravels sub rounded	0.0		
5	B-39-5.5 850	X		SM		2.5-6 (SM) silty sand (10 YR 4/4) Dark yellowish Brown same as above but different color and silts low plastic	0.0		5
	B-39-710 900	X		GM		Trace gravels 0.5" diameter	0.0		
	B-39-710 900	X		GM		6. (GM) silty sandy gravels (10 YR 4/4) Dark yellowish Brown silts - low plastic, moist, soft	0.0		
10	B-39-00 810 Throw out	X		GM		sand - fine-coarse grained, moist, loose sub angular - sub rounded	0.0		10
						Gravels - 0.5-2" diameter, sub angular, sub rounded.			
15									15
20									20

BORING+WELL_2006 FIELD BLANK_LFR TEST PROJ AUG 2006.GPJ_LFR SEPT 2006.GDT 9/7/06

(Continued Next Page)

APPROVED BY: _____ DATE: _____



PROJECT NAME Hanson Radon LOG OF BORING / WELL B-40
 CLIENT ARCADIS PAGE 1 OF
 PROJECT LOCATION Pleasanton, CA DRILLING CONTRACTOR Pene Cone
 PROJECT NUMBER DRILLING METHOD Direct Push
 LOCATION AOC1 STAMP (IF APPLICABLE) AND/OR NOTES
 OVA EQUIPMENT PID
 GROUND ELEVATION HOLE DIAMETER 2"
 TOP OF CASING ELEVATION HOLE DEPTH 115'
 FIRST ENCOUNTERED WATER
 STABILIZED WATER
 LOGGED BY M. Sullivan DATE 1-25-10

DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS	LITHOLOGIC DESCRIPTION	PID or OVA (ppm)	DEPTH (feet)
						0-2.5	(SM) silty sand (10 YR 3/2) very dark grayish brown - silts, Nonplastic, Moist, Soft - sands, fine-coarse grained, moist, loose, sub angular sub-spherical	0.0	
	B-40-1.5 925	X		SM					
	B-40-3.0 928	X		SM					
5						2.5	(GM) sandy gravel (10 YR 4/4) dark yellowish brown - micropilts Nonplastic, loose soft, Moist - sand, fine-coarse grained, moist, loose, sub angular, sub-spherical - gravels 0.5-2" diameter, loose, moist, sub angular, sub spherical	0.0	5
	B-40-5.5 935	X		GM					
10									
	B-40-10.5 704K	X		GM					
15									
20									

BORINGWELL_2006 FIELD BLANK_LFR TEST PROJ AUG2006.GPJ_LFR SEPT 2006.GDT_9/7/06

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APPROVED BY: _____ DATE: _____



PROJECT NAME Hanson
 CLIENT ARCADIS
 PROJECT LOCATION Pleasanton CA
 PROJECT NUMBER _____
 LOCATION AOC 1
 OVA EQUIPMENT PEd
 GROUND ELEVATION _____ HOLE DIAMETER 2"
 TOP OF CASING ELEVATION _____ HOLE DEPTH 8
 FIRST ENCOUNTERED WATER _____
 STABILIZED WATER _____
 LOGGED BY M. Sullivan DATE 1-26-10

LOG OF BORING / WELL B-41
 PAGE 1 OF 1

DRILLING CONTRACTOR Penecore
 DRILLING METHOD Direct Push
 STAMP (IF APPLICABLE) AND/OR NOTES

DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS	LITHOLOGIC DESCRIPTION	PID or OVA (ppm)	DEPTH (feet)
	B-41-1.5 955		SM		0-1.5 (SM)	silty sand with trace gravels (10YR 4/4) ^{MWS} Dark Yellowish Brown	0.0	
	B-41-3.0 1000		SM			silts - Non plastic - Low plastic, moist, soft sands - fine - coarse grained, moist, loose, sub-angular, sub rounded Trace fine gravels, sub angular, sub rounded	0.0	
5	B-41-5.5 1005		SM		1.5-2 (SM)	silty sandy gravels (10YR 4/4) Dark Yellowish brown	0.0	5
	B-41-7.0		SM			silts - low plasticity, moist, soft sand - fine grained - coarse, moist, loose, sub angular, sub rounded gravels - 0.5-2" Diameter, loose, sub-angular, sub rounded	0.0	
10								10
15								15
20								20

BORING+WELL 2006 FIELD BLANK LFR TEST PROJ.AUG2006.GPJ LFR SEPT 2006.GDT 9/7/06

(Continued Next Page)

APPROVED BY: _____ DATE: _____



APPENDIX C

Laboratory Certified Analytical Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories Inc.

TestAmerica San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-25537-1

Client Project/Site: Hanson Radum

For:

ARCADIS U.S., Inc Formerly LFR, Inc.

1900 Powell St 12th Floor

Emeryville, California 94608-1827

Attn: Katrin Schliewen

Surinder Sidhu

Authorized for release by:

2/3/2010 4:23 PM

Surinder Sidhu

Customer Service Manager

surinder.sidhu@testamericainc.com

Designee for

Afsaneh Salimpour

Project Manager I

afsaneh.salimpour@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

LINKS

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results through

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www.testamericainc.com

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Qualifier Definition/Glossary

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate exceeds the control limits

Glossary

Glossary	Glossary Description
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.

1

2

3

4

5

6

7

8

9

10

11

Job Narrative
720-25537-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch #65066 was outside control limits. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): B-39-3.0' (720-25537-6), B-40-5.5' (720-25537-3). The sample(s) shows evidence of matrix interference and confirmed by reanalysis.

Method(s) 8260B: Internal standard responses were lower outside of acceptance limits for the following sample(s): B-39-5.5' (720-25537-7). The sample(s) shows evidence of matrix interference and surrogate was higher outside control limits and confirmed by reanalysis.

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): B-36-1.5' (720-25537-21), B-37-2.5' (720-25537-18). The sample(s) shows evidence of matrix interference and confirmed by reanalysis.

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside the upper control limit: B-37-2.5' (720-25537-18). This sample did not contain any target analytes; re-analysis was performed.

No other analytical or quality issues were noted.

GC VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) 8015B: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: (720-25537-3 MS), (720-25537-3 MSD), B-39-3.0' (720-25537-6), B-40-5.5' (720-25537-3).

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.



Detection Summary

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Client Sample ID: B-40-1.5'

Lab Sample ID: 720-25537-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	8.4		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: B-40-3.0'

Lab Sample ID: 720-25537-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
No Detections.									

Client Sample ID: B-40-5.5'

Lab Sample ID: 720-25537-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	450		3.0		mg/Kg	3		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	960		150		mg/Kg	3		8015B	Silica Gel Cleanup

Client Sample ID: B-39-1.5'

Lab Sample ID: 720-25537-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
No Detections.									

Client Sample ID: B-39-3.0'

Lab Sample ID: 720-25537-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	920		9.9		mg/Kg	10		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	2600		500		mg/Kg	10		8015B	Silica Gel Cleanup

Client Sample ID: B-39-5.5'

Lab Sample ID: 720-25537-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	42		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	220		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: B-38-1.5'

Lab Sample ID: 720-25537-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	4.2		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: B-38-3.0'

Lab Sample ID: 720-25537-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	2.2		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: B-38-5.5'

Lab Sample ID: 720-25537-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
No Detections.									

Client Sample ID: B-41-1.5'

Lab Sample ID: 720-25537-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.3		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

TestAmerica San Francisco

Detection Summary

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Client Sample ID: B-41-3.0'

Lab Sample ID: 720-25537-14

Analyte	Result	Qualifier	Unit	Dil Fac	D	Method	Prep Type
No Detections.							

Client Sample ID: B-41-5.5'

Lab Sample ID: 720-25537-15

Analyte	Result	Qualifier	Unit	Dil Fac	D	Method	Prep Type
No Detections.							

Client Sample ID: B-37-1.5'

Lab Sample ID: 720-25537-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	160		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	290		49		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: B-37-2.5'

Lab Sample ID: 720-25537-18

Analyte	Result	Qualifier	Unit	Dil Fac	D	Method	Prep Type
No Detections.							

Client Sample ID: B-37-5.5'

Lab Sample ID: 720-25537-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.6		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: B-36-1.5'

Lab Sample ID: 720-25537-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.7		1.0		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: B-36-3.0'

Lab Sample ID: 720-25537-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	5.1		4.7		ug/Kg	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	1.1		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: B-36-5.5'

Lab Sample ID: 720-25537-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.2		0.99		mg/Kg	1		8015B	Silica Gel Cleanup

Analytical Data

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Client Sample ID: B-40-1.5'

Date Collected: 01/25/10 09:25

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.3		ug/Kg		01/27/10 12:00	01/27/10 22:27	1
Ethylbenzene	ND		4.3		ug/Kg		01/27/10 12:00	01/27/10 22:27	1
Toluene	ND		4.3		ug/Kg		01/27/10 12:00	01/27/10 22:27	1
Xylenes, Total	ND		8.7		ug/Kg		01/27/10 12:00	01/27/10 22:27	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	8.4		1.0		mg/Kg		01/28/10 11:36	01/28/10 21:22	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/28/10 21:22	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				01/28/10 11:36	01/28/10 21:22	1
p-Terphenyl	87		46 - 115				01/28/10 11:36	01/28/10 21:22	1

Client Sample ID: B-40-3.0'

Date Collected: 01/25/10 09:28

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.8		ug/Kg		01/27/10 12:00	01/27/10 23:42	1
Ethylbenzene	ND		4.8		ug/Kg		01/27/10 12:00	01/27/10 23:42	1
Toluene	ND		4.8		ug/Kg		01/27/10 12:00	01/27/10 23:42	1
Xylenes, Total	ND		9.6		ug/Kg		01/27/10 12:00	01/27/10 23:42	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		01/28/10 13:25	01/29/10 08:05	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 13:25	01/29/10 08:05	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				01/28/10 13:25	01/29/10 08:05	1
p-Terphenyl	98		46 - 115				01/28/10 13:25	01/29/10 08:05	1

Client Sample ID: B-40-5.5'

Date Collected: 01/25/10 09:35

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-3

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.7		ug/Kg		01/28/10 10:00	01/28/10 19:45	1
Ethylbenzene	ND		4.7		ug/Kg		01/28/10 10:00	01/28/10 19:45	1
Toluene	ND		4.7		ug/Kg		01/28/10 10:00	01/28/10 19:45	1
Xylenes, Total	ND		9.4		ug/Kg		01/28/10 10:00	01/28/10 19:45	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	450		3.0		mg/Kg		01/28/10 13:25	01/29/10 08:30	3
Motor Oil Range Organics [C24-C36]	960		150		mg/Kg		01/28/10 13:25	01/29/10 08:30	3
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	2		0 - 5				01/28/10 13:25	01/29/10 08:30	3

Analytical Data

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Client Sample ID: B-40-5.5'

Date Collected: 01/25/10 09:35

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-3

Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	53		46 - 115	01/28/10 13:25	01/29/10 08:30	3

Client Sample ID: B-39-1.5'

Date Collected: 01/26/10 08:30

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.5		ug/Kg		01/27/10 12:00	01/28/10 00:58	1
Ethylbenzene	ND		4.5		ug/Kg		01/27/10 12:00	01/28/10 00:58	1
Toluene	ND		4.5		ug/Kg		01/27/10 12:00	01/28/10 00:58	1
Xylenes, Total	ND		8.9		ug/Kg		01/27/10 12:00	01/28/10 00:58	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		01/28/10 11:36	01/28/10 21:47	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/28/10 21:47	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	01/28/10 11:36	01/28/10 21:47	1
p-Terphenyl	90		46 - 115	01/28/10 11:36	01/28/10 21:47	1

Client Sample ID: B-39-3.0'

Date Collected: 01/26/10 08:40

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.4		ug/Kg		01/28/10 10:00	01/28/10 20:11	1
Ethylbenzene	ND		4.4		ug/Kg		01/28/10 10:00	01/28/10 20:11	1
Toluene	ND		4.4		ug/Kg		01/28/10 10:00	01/28/10 20:11	1
Xylenes, Total	ND		8.8		ug/Kg		01/28/10 10:00	01/28/10 20:11	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	920		9.9		mg/Kg		01/28/10 11:36	01/28/10 22:12	10
Motor Oil Range Organics [C24-C36]	2600		500		mg/Kg		01/28/10 11:36	01/28/10 22:12	10

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	01/28/10 11:36	01/28/10 22:12	10
p-Terphenyl	0	X	46 - 115	01/28/10 11:36	01/28/10 22:12	10

Client Sample ID: B-39-5.5'

Date Collected: 01/26/10 08:50

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.7		ug/Kg		01/28/10 10:00	01/28/10 20:36	1
Ethylbenzene	ND		4.7		ug/Kg		01/28/10 10:00	01/28/10 20:36	1
Toluene	ND		4.7		ug/Kg		01/28/10 10:00	01/28/10 20:36	1

TestAmerica San Francisco

Analytical Data

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Client Sample ID: B-39-5.5'

Date Collected: 01/26/10 08:50

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		9.4		ug/Kg		01/28/10 10:00	01/28/10 20:36	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	42		0.99		mg/Kg		01/28/10 11:36	01/28/10 22:36	1
Motor Oil Range Organics [C24-C36]	220		49		mg/Kg		01/28/10 11:36	01/28/10 22:36	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	01/28/10 11:36	01/28/10 22:36	1
p-Terphenyl	60		46 - 115	01/28/10 11:36	01/28/10 22:36	1

Client Sample ID: B-38-1.5'

Date Collected: 01/26/10 09:25

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-9

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 02:39	1
Ethylbenzene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 02:39	1
Toluene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 02:39	1
Xylenes, Total	ND		9.1		ug/Kg		01/27/10 12:00	01/28/10 02:39	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	4.2		0.99		mg/Kg		01/28/10 11:36	01/29/10 13:06	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/29/10 13:06	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	01/28/10 11:36	01/29/10 13:06	1
p-Terphenyl	90		46 - 115	01/28/10 11:36	01/29/10 13:06	1

Client Sample ID: B-38-3.0'

Date Collected: 01/26/10 09:30

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-10

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.2		ug/Kg		01/27/10 12:00	01/28/10 03:05	1
Ethylbenzene	ND		4.2		ug/Kg		01/27/10 12:00	01/28/10 03:05	1
Toluene	ND		4.2		ug/Kg		01/27/10 12:00	01/28/10 03:05	1
Xylenes, Total	ND		8.4		ug/Kg		01/27/10 12:00	01/28/10 03:05	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	2.2		0.99		mg/Kg		01/28/10 11:36	01/29/10 13:31	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/29/10 13:31	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	01/28/10 11:36	01/29/10 13:31	1
p-Terphenyl	96		46 - 115	01/28/10 11:36	01/29/10 13:31	1

Analytical Data

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Client Sample ID: B-38-5.5'

Date Collected: 01/26/10 09:35

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-11

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 03:34	1
Ethylbenzene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 03:34	1
Toluene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 03:34	1
Xylenes, Total	ND		9.3		ug/Kg		01/27/10 12:00	01/28/10 03:34	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		01/28/10 11:36	01/28/10 23:51	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/28/10 23:51	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				01/28/10 11:36	01/28/10 23:51	1
p-Terphenyl	93		46 - 115				01/28/10 11:36	01/28/10 23:51	1

Client Sample ID: B-41-1.5'

Date Collected: 01/26/10 09:55

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-13

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 04:25	1
Ethylbenzene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 04:25	1
Toluene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 04:25	1
Xylenes, Total	ND		9.2		ug/Kg		01/27/10 12:00	01/28/10 04:25	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.3		0.99		mg/Kg		01/28/10 11:36	01/29/10 00:16	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/29/10 00:16	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				01/28/10 11:36	01/29/10 00:16	1
p-Terphenyl	95		46 - 115				01/28/10 11:36	01/29/10 00:16	1

Client Sample ID: B-41-3.0'

Date Collected: 01/26/10 10:00

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-14

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.5		ug/Kg		01/27/10 12:00	01/28/10 00:33	1
Ethylbenzene	ND		4.5		ug/Kg		01/27/10 12:00	01/28/10 00:33	1
Toluene	ND		4.5		ug/Kg		01/27/10 12:00	01/28/10 00:33	1
Xylenes, Total	ND		9.0		ug/Kg		01/27/10 12:00	01/28/10 00:33	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		01/28/10 11:36	01/29/10 00:40	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/29/10 00:40	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				01/28/10 11:36	01/29/10 00:40	1

Analytical Data

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Client Sample ID: B-41-3.0'

Date Collected: 01/26/10 10:00

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-14

Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	92		46 - 115	01/28/10 11:36	01/29/10 00:40	1

Client Sample ID: B-41-5.5'

Date Collected: 01/26/10 10:05

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-15

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 02:14	1
Ethylbenzene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 02:14	1
Toluene	ND		4.6		ug/Kg		01/27/10 12:00	01/28/10 02:14	1
Xylenes, Total	ND		9.1		ug/Kg		01/27/10 12:00	01/28/10 02:14	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		01/28/10 11:36	01/29/10 01:05	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		01/28/10 11:36	01/29/10 01:05	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	01/28/10 11:36	01/29/10 01:05	1
p-Terphenyl	96		46 - 115	01/28/10 11:36	01/29/10 01:05	1

Client Sample ID: B-37-1.5'

Date Collected: 01/26/10 10:25

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-17

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.7		ug/Kg		01/28/10 10:00	01/28/10 17:28	1
Ethylbenzene	ND		4.7		ug/Kg		01/28/10 10:00	01/28/10 17:28	1
Toluene	ND		4.7		ug/Kg		01/28/10 10:00	01/28/10 17:28	1
Xylenes, Total	ND		9.4		ug/Kg		01/28/10 10:00	01/28/10 17:28	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	160		0.99		mg/Kg		01/28/10 11:36	01/29/10 02:19	1
Motor Oil Range Organics [C24-C36]	290		49		mg/Kg		01/28/10 11:36	01/29/10 02:19	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	1		0 - 5	01/28/10 11:36	01/29/10 02:19	1
p-Terphenyl	57		46 - 115	01/28/10 11:36	01/29/10 02:19	1

Client Sample ID: B-37-2.5'

Date Collected: 01/26/10 10:30

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-18

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.7		ug/Kg		01/29/10 08:00	01/29/10 15:04	1
Ethylbenzene	ND		4.7		ug/Kg		01/29/10 08:00	01/29/10 15:04	1
Toluene	ND		4.7		ug/Kg		01/29/10 08:00	01/29/10 15:04	1

TestAmerica San Francisco

Analytical Data

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Client Sample ID: B-37-2.5'

Date Collected: 01/26/10 10:30

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-18

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		9.4		ug/Kg		01/29/10 08:00	01/29/10 15:04	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		01/28/10 11:36	01/29/10 14:22	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/29/10 14:22	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	01/28/10 11:36	01/29/10 14:22	1
p-Terphenyl	94		46 - 115	01/28/10 11:36	01/29/10 14:22	1

Client Sample ID: B-37-5.5'

Date Collected: 01/26/10 10:35

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-19

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0		ug/Kg		01/28/10 10:00	01/28/10 17:57	1
Ethylbenzene	ND		5.0		ug/Kg		01/28/10 10:00	01/28/10 17:57	1
Toluene	ND		5.0		ug/Kg		01/28/10 10:00	01/28/10 17:57	1
Xylenes, Total	ND		9.9		ug/Kg		01/28/10 10:00	01/28/10 17:57	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.6		1.0		mg/Kg		01/28/10 11:36	01/29/10 03:08	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/29/10 03:08	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	01/28/10 11:36	01/29/10 03:08	1
p-Terphenyl	95		46 - 115	01/28/10 11:36	01/29/10 03:08	1

Client Sample ID: B-36-1.5'

Date Collected: 01/26/10 10:55

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-21

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.9		ug/Kg		01/29/10 08:00	01/29/10 15:29	1
Ethylbenzene	ND		4.9		ug/Kg		01/29/10 08:00	01/29/10 15:29	1
Toluene	ND		4.9		ug/Kg		01/29/10 08:00	01/29/10 15:29	1
Xylenes, Total	ND		9.8		ug/Kg		01/29/10 08:00	01/29/10 15:29	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.7		1.0		mg/Kg		01/28/10 11:36	01/29/10 03:33	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/29/10 03:33	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5	01/28/10 11:36	01/29/10 03:33	1
p-Terphenyl	100		46 - 115	01/28/10 11:36	01/29/10 03:33	1

Analytical Data

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Client Sample ID: B-36-3.0'

Date Collected: 01/26/10 11:00

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-22

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.7		ug/Kg		01/28/10 10:00	01/28/10 16:01	1
Ethylbenzene	ND		4.7		ug/Kg		01/28/10 10:00	01/28/10 16:01	1
Toluene	5.1		4.7		ug/Kg		01/28/10 10:00	01/28/10 16:01	1
Xylenes, Total	ND		9.4		ug/Kg		01/28/10 10:00	01/28/10 16:01	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.1		0.99		mg/Kg		01/28/10 11:36	01/29/10 03:58	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		01/28/10 11:36	01/29/10 03:58	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				01/28/10 11:36	01/29/10 03:58	1
p-Terphenyl	92		46 - 115				01/28/10 11:36	01/29/10 03:58	1

Client Sample ID: B-36-5.5'

Date Collected: 01/26/10 11:05

Date Received: 01/26/10 13:40

Lab Sample ID: 720-25537-23

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.6		ug/Kg		01/29/10 18:30	01/29/10 20:07	1
Ethylbenzene	ND		4.6		ug/Kg		01/29/10 18:30	01/29/10 20:07	1
Toluene	ND		4.6		ug/Kg		01/29/10 18:30	01/29/10 20:07	1
Xylenes, Total	ND		9.1		ug/Kg		01/29/10 18:30	01/29/10 20:07	1

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.2		0.99		mg/Kg		01/28/10 11:36	01/29/10 07:40	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/29/10 07:40	1
Surrogate	% Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Capric Acid (Surr)	0		0 - 5				01/28/10 11:36	01/29/10 07:40	1
p-Terphenyl	100		46 - 115				01/28/10 11:36	01/29/10 07:40	1

Quality Control Data

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-65096/1-A
Matrix: Solid
Analysis Batch: 65040

Client Sample ID: MB 720-65096/1-A
Prep Type: Total/NA
Prep Batch: 65096

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		5.0		ug/Kg		01/27/10 12:00	01/27/10 18:11	1
Ethylbenzene	ND		5.0		ug/Kg		01/27/10 12:00	01/27/10 18:11	1
Toluene	ND		5.0		ug/Kg		01/27/10 12:00	01/27/10 18:11	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		01/27/10 12:00	01/27/10 18:11	1
o-Xylene	ND		5.0		ug/Kg		01/27/10 12:00	01/27/10 18:11	1
Xylenes, Total	ND		10		ug/Kg		01/27/10 12:00	01/27/10 18:11	1

Lab Sample ID: LCS 720-65096/2-A
Matrix: Solid
Analysis Batch: 65040

Client Sample ID: LCS 720-65096/2-A
Prep Type: Total/NA
Prep Batch: 65096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	% Rec.	% Rec. Limits	
						Limits	
Benzene	20.0	21.9		ug/Kg	109	82 - 124	
Ethylbenzene	20.0	21.6		ug/Kg	108	80 - 137	
Toluene	20.0	25.4		ug/Kg	127	83 - 128	
m-Xylene & p-Xylene	40.0	44.8		ug/Kg	112	79 - 146	
o-Xylene	20.0	23.4		ug/Kg	117	84 - 140	

Lab Sample ID: LCSD 720-65096/3-A
Matrix: Solid
Analysis Batch: 65040

Client Sample ID: LCSD 720-65096/3-A
Prep Type: Total/NA
Prep Batch: 65096

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	% Rec.	% Rec. Limits		RPD	
						Limits	RPD	Limit	
Benzene	20.0	20.6		ug/Kg	103	82 - 124	6	20	
Ethylbenzene	20.0	21.9		ug/Kg	110	80 - 137	1	20	
Toluene	20.0	21.7		ug/Kg	109	83 - 128	15	20	
m-Xylene & p-Xylene	40.0	45.1		ug/Kg	113	79 - 146	1	20	
o-Xylene	20.0	23.8		ug/Kg	119	84 - 140	2	20	

Lab Sample ID: 720-25537-1 MS
Matrix: Solid
Analysis Batch: 65040

Client Sample ID: B-40-1.5'
Prep Type: Total/NA
Prep Batch: 65096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	% Rec.	% Rec. Limits	
								Limits	
Benzene	ND		18.0	16.8		ug/Kg	94	70 - 130	
Ethylbenzene	ND		18.0	16.1		ug/Kg	90	65 - 130	
Toluene	ND		18.0	17.5		ug/Kg	96	70 - 130	
m-Xylene & p-Xylene			35.9	30.5		ug/Kg	85	70 - 130	
o-Xylene			18.0	15.5		ug/Kg	86	68 - 130	

Lab Sample ID: 720-25537-1 MSD
Matrix: Solid
Analysis Batch: 65040

Client Sample ID: B-40-1.5'
Prep Type: Total/NA
Prep Batch: 65096

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	% Rec.	% Rec. Limits		RPD	
								Limits	RPD	Limit	
Benzene	ND		17.2	16.9		ug/Kg	98	70 - 130	0	20	
Ethylbenzene	ND		17.2	15.2		ug/Kg	89	65 - 130	6	20	
Toluene	ND		17.2	17.2		ug/Kg	99	70 - 130	2	20	
m-Xylene & p-Xylene			34.3	31.2		ug/Kg	91	70 - 130	2	20	
o-Xylene			17.2	15.8		ug/Kg	92	68 - 130	2	20	

Quality Control Data

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-65196/1-A
Matrix: Solid
Analysis Batch: 65151

Client Sample ID: MB 720-65196/1-A
Prep Type: Total/NA
Prep Batch: 65196

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		5.0		ug/Kg		01/29/10 08:00	01/29/10 09:49	1
Ethylbenzene	ND		5.0		ug/Kg		01/29/10 08:00	01/29/10 09:49	1
Toluene	ND		5.0		ug/Kg		01/29/10 08:00	01/29/10 09:49	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		01/29/10 08:00	01/29/10 09:49	1
o-Xylene	ND		5.0		ug/Kg		01/29/10 08:00	01/29/10 09:49	1
Xylenes, Total	ND		10		ug/Kg		01/29/10 08:00	01/29/10 09:49	1

Lab Sample ID: LCS 720-65196/2-A
Matrix: Solid
Analysis Batch: 65151

Client Sample ID: LCS 720-65196/2-A
Prep Type: Total/NA
Prep Batch: 65196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	% Rec.	% Rec.	
						Limits	
Benzene	20.0	20.2		ug/Kg	101	82 - 124	
Ethylbenzene	20.0	19.6		ug/Kg	98	80 - 137	
Toluene	20.0	18.9		ug/Kg	94	83 - 128	
m-Xylene & p-Xylene	40.0	38.8		ug/Kg	97	79 - 146	
o-Xylene	20.0	20.2		ug/Kg	101	84 - 140	

Lab Sample ID: LCSD 720-65196/3-A
Matrix: Solid
Analysis Batch: 65151

Client Sample ID: LCSD 720-65196/3-A
Prep Type: Total/NA
Prep Batch: 65196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	% Rec.	% Rec.		RPD	
						Limits	RPD	Limit	
Benzene	20.0	19.4		ug/Kg	97	82 - 124	4	20	
Ethylbenzene	20.0	18.4		ug/Kg	92	80 - 137	7	20	
Toluene	20.0	18.9		ug/Kg	94	83 - 128	0	20	
m-Xylene & p-Xylene	40.0	36.5		ug/Kg	91	79 - 146	6	20	
o-Xylene	20.0	20.2		ug/Kg	101	84 - 140	0	20	

Lab Sample ID: MB 720-65282/1-A
Matrix: Solid
Analysis Batch: 65066

Client Sample ID: MB 720-65282/1-A
Prep Type: Total/NA
Prep Batch: 65282

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		5.0		ug/Kg		01/28/10 10:00	01/28/10 12:38	1
Ethylbenzene	ND		5.0		ug/Kg		01/28/10 10:00	01/28/10 12:38	1
Toluene	ND		5.0		ug/Kg		01/28/10 10:00	01/28/10 12:38	1
m-Xylene & p-Xylene	ND		5.0		ug/Kg		01/28/10 10:00	01/28/10 12:38	1
o-Xylene	ND		5.0		ug/Kg		01/28/10 10:00	01/28/10 12:38	1
Xylenes, Total	ND		10		ug/Kg		01/28/10 10:00	01/28/10 12:38	1

Lab Sample ID: LCS 720-65282/2-A
Matrix: Solid
Analysis Batch: 65066

Client Sample ID: LCS 720-65282/2-A
Prep Type: Total/NA
Prep Batch: 65282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	% Rec.	% Rec.	
						Limits	
Benzene	20.0	18.2		ug/Kg	91	82 - 124	
Ethylbenzene	20.0	17.9		ug/Kg	89	80 - 137	
Toluene	20.0	19.6		ug/Kg	98	83 - 128	
m-Xylene & p-Xylene	40.0	37.3		ug/Kg	93	79 - 146	
o-Xylene	20.0	19.3		ug/Kg	97	84 - 140	

Quality Control Data

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Lab Sample ID: LCS D 720-65282/3-A
Matrix: Solid
Analysis Batch: 65066

Client Sample ID: LCS D 720-65282/3-A
Prep Type: Total/NA
Prep Batch: 65282

Analyte	Spike Added	LCS D		Unit	% Rec.	% Rec.		RPD	Limit
		Result	Qualifier			Limits	RPD		
Benzene	20.0	20.3		ug/Kg	101		82 - 124	11	20
Ethylbenzene	20.0	19.1		ug/Kg	96		80 - 137	7	20
Toluene	20.0	18.0		ug/Kg	90		83 - 128	8	20
m-Xylene & p-Xylene	40.0	37.0		ug/Kg	92		79 - 146	1	20
o-Xylene	20.0	19.4		ug/Kg	97		84 - 140	0	20

Lab Sample ID: 720-25537-22 MS
Matrix: Solid
Analysis Batch: 65066

Client Sample ID: B-36-3.0'
Prep Type: Total/NA
Prep Batch: 65282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	% Rec.	% Rec.	
				Result	Qualifier			Limits	RPD
Benzene	ND		19.2	17.5		ug/Kg	87		70 - 130
Ethylbenzene	ND		19.2	16.4		ug/Kg	79		65 - 130
Toluene	5.1		19.2	17.0	F	ug/Kg	62		70 - 130
m-Xylene & p-Xylene			38.4	33.6		ug/Kg	76		70 - 130
o-Xylene			19.2	17.2		ug/Kg	81		68 - 130

Lab Sample ID: 720-25537-22 MSD
Matrix: Solid
Analysis Batch: 65066

Client Sample ID: B-36-3.0'
Prep Type: Total/NA
Prep Batch: 65282

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	% Rec.	% Rec.		RPD	Limit
				Result	Qualifier			Limits	RPD		
Benzene	ND		19.1	20.2		ug/Kg	102		70 - 130	14	20
Ethylbenzene	ND		19.1	22.1	F	ug/Kg	110		65 - 130	30	20
Toluene	5.1		19.1	20.1		ug/Kg	79		70 - 130	17	20
m-Xylene & p-Xylene			38.2	43.1	F	ug/Kg	102		70 - 130	25	20
o-Xylene			19.1	22.9	F	ug/Kg	111		68 - 130	28	20

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-65081/1-A
Matrix: Solid
Analysis Batch: 65062

Client Sample ID: MB 720-65081/1-A
Prep Type: Silica Gel Cleanup
Prep Batch: 65081

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		01/28/10 11:36	01/29/10 05:13	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		01/28/10 11:36	01/29/10 05:13	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	% Recovery	Qualifier				
Capric Acid (Surr)	0		0 - 5	01/28/10 11:36	01/29/10 05:13	1
p-Terphenyl	91		46 - 115	01/28/10 11:36	01/29/10 05:13	1

Lab Sample ID: LCS 720-65081/2-A
Matrix: Solid
Analysis Batch: 65062

Client Sample ID: LCS 720-65081/2-A
Prep Type: Silica Gel Cleanup
Prep Batch: 65081

Analyte	Spike Added	LCS		Unit	% Rec.	% Rec.	
		Result	Qualifier			Limits	RPD
Diesel Range Organics [C10-C28]	166	163		mg/Kg	98		45 - 115

Surrogate	LCS		Limits
	% Recovery	Qualifier	
p-Terphenyl	102		46 - 115

Quality Control Data

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
 Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 720-65081/3-A
Matrix: Solid
Analysis Batch: 65062

Client Sample ID: LCSD 720-65081/3-A
Prep Type: Silica Gel Cleanup
Prep Batch: 65081

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	% Rec.	Limits	RPD	Limit
Diesel Range Organics [C10-C28]	166	167		mg/Kg	101	45 - 115	2	35
Surrogate		% Recovery	Qualifier					
<i>p-Terphenyl</i>		106				46 - 115		

Lab Sample ID: 720-25537-15 MS
Matrix: Solid
Analysis Batch: 65062

Client Sample ID: B-41-5.5'
Prep Type: Silica Gel Cleanup
Prep Batch: 65081

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	% Rec.	Limits	RPD	Limit
Diesel Range Organics [C10-C28]	ND		166	148		mg/Kg	89	50 - 130		
Surrogate		% Recovery								
<i>p-Terphenyl</i>		99						46 - 115		

Lab Sample ID: 720-25537-15 MSD
Matrix: Solid
Analysis Batch: 65062

Client Sample ID: B-41-5.5'
Prep Type: Silica Gel Cleanup
Prep Batch: 65081

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	% Rec.	Limits	RPD	Limit
Diesel Range Organics [C10-C28]	ND		166	158		mg/Kg	95	50 - 130	6	30
Surrogate		% Recovery								
<i>p-Terphenyl</i>		103						46 - 115		

QC Association Summary

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

GC/MS VOA

Analysis Batch: 65040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-65096/1-A	MB 720-65096/1-A	Total/NA	Solid	8260B	65096
LCS 720-65096/2-A	LCS 720-65096/2-A	Total/NA	Solid	8260B	65096
LCSD 720-65096/3-A	LCSD 720-65096/3-A	Total/NA	Solid	8260B	65096
720-25537-1	B-40-1.5'	Total/NA	Solid	8260B	65096
720-25537-1 MS	B-40-1.5'	Total/NA	Solid	8260B	65096
720-25537-1 MSD	B-40-1.5'	Total/NA	Solid	8260B	65096
720-25537-2	B-40-3.0'	Total/NA	Solid	8260B	65096
720-25537-14	B-41-3.0'	Total/NA	Solid	8260B	65096
720-25537-5	B-39-1.5'	Total/NA	Solid	8260B	65096
720-25537-15	B-41-5.5'	Total/NA	Solid	8260B	65096
720-25537-9	B-38-1.5'	Total/NA	Solid	8260B	65096
720-25537-10	B-38-3.0'	Total/NA	Solid	8260B	65096
720-25537-11	B-38-5.5'	Total/NA	Solid	8260B	65096
720-25537-13	B-41-1.5'	Total/NA	Solid	8260B	65096

Analysis Batch: 65066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-65282/1-A	MB 720-65282/1-A	Total/NA	Solid	8260B	65282
LCS 720-65282/2-A	LCS 720-65282/2-A	Total/NA	Solid	8260B	65282
LCSD 720-65282/3-A	LCSD 720-65282/3-A	Total/NA	Solid	8260B	65282
720-25537-22	B-36-3.0'	Total/NA	Solid	8260B	65282
720-25537-22 MS	B-36-3.0'	Total/NA	Solid	8260B	65282
720-25537-22 MSD	B-36-3.0'	Total/NA	Solid	8260B	65282
720-25537-17	B-37-1.5'	Total/NA	Solid	8260B	65282
720-25537-19	B-37-5.5'	Total/NA	Solid	8260B	65282
720-25537-3	B-40-5.5'	Total/NA	Solid	8260B	65282
720-25537-6	B-39-3.0'	Total/NA	Solid	8260B	65282
720-25537-7	B-39-5.5'	Total/NA	Solid	8260B	65282

Prep Batch: 65096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-65096/1-A	MB 720-65096/1-A	Total/NA	Solid	5030B	
LCS 720-65096/2-A	LCS 720-65096/2-A	Total/NA	Solid	5030B	
LCSD 720-65096/3-A	LCSD 720-65096/3-A	Total/NA	Solid	5030B	
720-25537-1	B-40-1.5'	Total/NA	Solid	5030B	
720-25537-1 MS	B-40-1.5'	Total/NA	Solid	5030B	
720-25537-1 MSD	B-40-1.5'	Total/NA	Solid	5030B	
720-25537-2	B-40-3.0'	Total/NA	Solid	5030B	
720-25537-14	B-41-3.0'	Total/NA	Solid	5030B	
720-25537-5	B-39-1.5'	Total/NA	Solid	5030B	
720-25537-15	B-41-5.5'	Total/NA	Solid	5030B	
720-25537-9	B-38-1.5'	Total/NA	Solid	5030B	
720-25537-10	B-38-3.0'	Total/NA	Solid	5030B	
720-25537-11	B-38-5.5'	Total/NA	Solid	5030B	
720-25537-13	B-41-1.5'	Total/NA	Solid	5030B	

Analysis Batch: 65151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-65196/1-A	MB 720-65196/1-A	Total/NA	Solid	8260B	65196
LCS 720-65196/2-A	LCS 720-65196/2-A	Total/NA	Solid	8260B	65196
LCSD 720-65196/3-A	LCSD 720-65196/3-A	Total/NA	Solid	8260B	65196
720-25537-18	B-37-2.5'	Total/NA	Solid	8260B	65196

QC Association Summary

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

GC/MS VOA (Continued)

Analysis Batch: 65151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-25537-21	B-36-1.5'	Total/NA	Solid	8260B	65196
720-25537-23	B-36-5.5'	Total/NA	Solid	8260B	65196

Prep Batch: 65196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-65196/1-A	MB 720-65196/1-A	Total/NA	Solid	5030B	
LCS 720-65196/2-A	LCS 720-65196/2-A	Total/NA	Solid	5030B	
LCSD 720-65196/3-A	LCSD 720-65196/3-A	Total/NA	Solid	5030B	
720-25537-18	B-37-2.5'	Total/NA	Solid	5030B	
720-25537-21	B-36-1.5'	Total/NA	Solid	5030B	
720-25537-23	B-36-5.5'	Total/NA	Solid	5030B	

Prep Batch: 65282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-65282/1-A	MB 720-65282/1-A	Total/NA	Solid	5030B	
LCS 720-65282/2-A	LCS 720-65282/2-A	Total/NA	Solid	5030B	
LCSD 720-65282/3-A	LCSD 720-65282/3-A	Total/NA	Solid	5030B	
720-25537-22	B-36-3.0'	Total/NA	Solid	5030B	
720-25537-22 MS	B-36-3.0'	Total/NA	Solid	5030B	
720-25537-22 MSD	B-36-3.0'	Total/NA	Solid	5030B	
720-25537-17	B-37-1.5'	Total/NA	Solid	5030B	
720-25537-19	B-37-5.5'	Total/NA	Solid	5030B	
720-25537-3	B-40-5.5'	Total/NA	Solid	5030B	
720-25537-6	B-39-3.0'	Total/NA	Solid	5030B	
720-25537-7	B-39-5.5'	Total/NA	Solid	5030B	

GC Semi VOA

Analysis Batch: 65062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-25537-1	B-40-1.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-5	B-39-1.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-6	B-39-3.0'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-7	B-39-5.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-11	B-38-5.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-13	B-41-1.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-14	B-41-3.0'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-15	B-41-5.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-15 MS	B-41-5.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-15 MSD	B-41-5.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-17	B-37-1.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-19	B-37-5.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-21	B-36-1.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-22	B-36-3.0'	Silica Gel Cleanup	Solid	8015B	65081
LCS 720-65081/2-A	LCS 720-65081/2-A	Silica Gel Cleanup	Solid	8015B	65081
LCSD 720-65081/3-A	LCSD 720-65081/3-A	Silica Gel Cleanup	Solid	8015B	65081
MB 720-65081/1-A	MB 720-65081/1-A	Silica Gel Cleanup	Solid	8015B	65081

Prep Batch: 65081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-65081/1-A	MB 720-65081/1-A	Silica Gel Cleanup	Solid	3550B	
LCS 720-65081/2-A	LCS 720-65081/2-A	Silica Gel Cleanup	Solid	3550B	

QC Association Summary

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
 Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

GC Semi VOA (Continued)

Prep Batch: 65081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-65081/3-A	LCSD 720-65081/3-A	Silica Gel Cleanup	Solid	3550B	
720-25537-1	B-40-1.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-5	B-39-1.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-6	B-39-3.0'	Silica Gel Cleanup	Solid	3550B	
720-25537-7	B-39-5.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-9	B-38-1.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-10	B-38-3.0'	Silica Gel Cleanup	Solid	3550B	
720-25537-11	B-38-5.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-13	B-41-1.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-14	B-41-3.0'	Silica Gel Cleanup	Solid	3550B	
720-25537-15	B-41-5.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-15 MS	B-41-5.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-15 MSD	B-41-5.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-17	B-37-1.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-18	B-37-2.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-19	B-37-5.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-21	B-36-1.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-22	B-36-3.0'	Silica Gel Cleanup	Solid	3550B	
720-25537-23	B-36-5.5'	Silica Gel Cleanup	Solid	3550B	
720-25537-2	B-40-3.0'	Silica Gel Cleanup	Solid	3550B	
720-25537-3	B-40-5.5'	Silica Gel Cleanup	Solid	3550B	

Analysis Batch: 65132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-25537-23	B-36-5.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-2	B-40-3.0'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-3	B-40-5.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-9	B-38-1.5'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-10	B-38-3.0'	Silica Gel Cleanup	Solid	8015B	65081
720-25537-18	B-37-2.5'	Silica Gel Cleanup	Solid	8015B	65081



Method Summary

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SF
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL SF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SF = TestAmerica San Francisco, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: ARCADIS U.S., Inc Formerly LFR, Inc.
Project/Site: Hanson Radum

TestAmerica Job ID: 720-25537-1

Lab Sample ID	Client Sample ID	Matrix	Sampled	Received
720-25537-1	B-40-1.5'	Solid	01/25/10 09:25	01/26/10 13:40
720-25537-2	B-40-3.0'	Solid	01/25/10 09:28	01/26/10 13:40
720-25537-3	B-40-5.5'	Solid	01/25/10 09:35	01/26/10 13:40
720-25537-5	B-39-1.5'	Solid	01/26/10 08:30	01/26/10 13:40
720-25537-6	B-39-3.0'	Solid	01/26/10 08:40	01/26/10 13:40
720-25537-7	B-39-5.5'	Solid	01/26/10 08:50	01/26/10 13:40
720-25537-9	B-38-1.5'	Solid	01/26/10 09:25	01/26/10 13:40
720-25537-10	B-38-3.0'	Solid	01/26/10 09:30	01/26/10 13:40
720-25537-11	B-38-5.5'	Solid	01/26/10 09:35	01/26/10 13:40
720-25537-13	B-41-1.5'	Solid	01/26/10 09:55	01/26/10 13:40
720-25537-14	B-41-3.0'	Solid	01/26/10 10:00	01/26/10 13:40
720-25537-15	B-41-5.5'	Solid	01/26/10 10:05	01/26/10 13:40
720-25537-17	B-37-1.5'	Solid	01/26/10 10:25	01/26/10 13:40
720-25537-18	B-37-2.5'	Solid	01/26/10 10:30	01/26/10 13:40
720-25537-19	B-37-5.5'	Solid	01/26/10 10:35	01/26/10 13:40
720-25537-21	B-36-1.5'	Solid	01/26/10 10:55	01/26/10 13:40
720-25537-22	B-36-3.0'	Solid	01/26/10 11:00	01/26/10 13:40
720-25537-23	B-36-5.5'	Solid	01/26/10 11:05	01/26/10 13:40

720-25531
CHAIN OF CUSTODY / ANALYSES REQUEST FORM

2 of 2
121960

SAMPLE COLLECTOR:
LFR 1900 Powell Street, 12th Floor
 Emeryville, California 94608
 (510) 652-4500 Fax: (510) 652-2246

PROJECT NO.: SECTION NO.: DATE: SAMPLER'S INITIALS: SERIAL NO.:
 PROJECT NAME: *See Pg 1* SAMPLER (Signature): *[Signature]* N° 204176

SAMPLE ID.	DATE	TIME	SAMPLE		ANALYSES							TAT	REMARKS	
			Lab Sample No.	No. of Containers	Soil	Water	TPHd (EPA 8015/4/13)	TPHmo (EPA 8015/4/13)	TPHg (EPA 8015/4/13)	BTEX (EPA 8015/4/13)	VOCs (EPA 8260/824)			Metals (EPA 6010/7000)
B-36-1.5'	1-26-10	1055	21	1	X		X	X	X				X	Silica Gel Cleaned on all TPH samples Hold deepest sample pending Analysis
B-36-3.0'	↓	1100	22	1	↓		X	X	X				X	
B-36-5.5'	↓	1105	23	1	↓		X	X	X				X	
B-36-7.0'	↓	1110	24	1	↓		X	X	X				X	

[Large Signature]

SAMPLE RECEIPT: <input type="checkbox"/> Intact <input type="checkbox"/> Cold <input type="checkbox"/> On Ice <input type="checkbox"/> Ambient Preservative Correct? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Cooler Temp:	METHOD OF SHIPMENT:	RELINQUISHED BY: <i>[Signature]</i> (SIGNATURE) (DATE) 1-26-10	RELINQUISHED BY: <i>[Signature]</i> (SIGNATURE) (DATE) 1/26/10	2 RELINQUISHED BY: (SIGNATURE) (DATE)
	Cooler No:	LAB REPORT NO.: 1340	(PRINTED NAME) (TIME)	(PRINTED NAME) (TIME)	(PRINTED NAME) (TIME)
		FAX COC CONFIRMATION TO: <i>see Pg 1</i>	(COMPANY) ARCADIS	(COMPANY) TAST	(COMPANY)
		FAX RESULTS TO:	1 RECEIVED BY: (SIGNATURE) (DATE)	2 RECEIVED BY (LABORATORY): (SIGNATURE) (DATE)	3
		SEND HARDCOPY TO:	(PRINTED NAME) (TIME)	(PRINTED NAME) (TIME)	(PRINTED NAME) (TIME)
		SEND EDD TO: EMV.LABEDDS.COM	(COMPANY)	(COMPANY)	(COMPANY)

Shipping Copy (White) File Copy (Yellow) Field Copy (Pink) CHAIN of CUSTODY - ANALYSES FORM.CDR 5/2003

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02/03/2010

11 10 9 8 7 6 5 4 3 2 1

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc Formerly LFR, Inc.

Job Number: 720-25537-1

Login Number: 25537

Creator: Hoang, Julie

List Number: 1

List Source: TestAmerica San Francisco

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	