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**Site Investigation and Well Installation Report
for the SS-123 Area (AOC #8)
ACEH Case #RO0002952 and
Geotracker Global ID #SL0600101555
Hanson Aggregates Radum Facility
3000 Busch Road
Pleasanton, Alameda County, California**

**June 20, 2008
001-09567-06**

Prepared for
Hanson Aggregates West Region
3000 Busch Road
Pleasanton, California 94566

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



June 20, 2008

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

Subject: Site Investigation and Well Installation Report for the SS-123 Area (AOC #8), ACEH Case #RO0002952 and Geotracker Global ID#SL0600101555, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, Alameda County, California

Dear Mr. Wickham:

The enclosed "Site Investigation and Well Installation Report for the SS-123 (AOC #8)" was prepared by LFR Inc. (LFR) on behalf of Hanson Aggregates West Region for the Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California. This report presents the findings of additional subsurface investigations, including well installations, conducted during May 2008 in the SS-123 area (AOC #8; "the Site") by LFR to further characterize the extent of contamination at the Site. The scope of work for the investigations was described in a work plan submitted to Alameda County Environmental Health (ACEH) on February 6, 2008, and approved by ACEH on February 26, 2008.

The investigations completed during May 2008 included advancing seven soil borings to collect depth-discrete soil samples and grab groundwater samples and converting two of the seven soil borings to groundwater monitoring wells. The wells were then developed, purged, and sampled. This report includes a summary of previous investigations conducted by LFR and other consultants, a description of the field methodologies used, and presents and discusses the results of the investigations.

As required, this report will be submitted electronically via the Alameda County Environmental Cleanup Oversight Program FTP website, and via the Regional Water Quality Control Board's Geotracker electronic submittal system.

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

June 20, 2008

Page 2

Sincerely,

A handwritten signature in blue ink that reads "Lee W. Cover". The signature is written in a cursive style with a long horizontal flourish at the end.

Lee W. Cover
Environmental Manager
Hanson Aggregates West Region

Enclosure

CONTENTS

| | |
|---|-----|
| CERTIFICATIONS | V |
| EXECUTIVE SUMMARY | VII |
| 1.0 INTRODUCTION..... | 1 |
| 2.0 BACKGROUND | 2 |
| 2.1 Site Description and History | 2 |
| 2.2 Regional and Site Geology and Hydrogeology | 3 |
| 2.2.1 Regional Geology and Hydrogeology | 3 |
| 2.2.2 Site Geology and Hydrogeology | 3 |
| 2.3 Summary of Previous Site Investigations Conducted at the Site | 4 |
| 2.4 Regulatory Determinations | 5 |
| 2.5 Investigation Objectives and Scope of Work | 6 |
| 3.0 INVESTIGATION METHODOLOGY | 7 |
| 3.1 Pre-Field Activities | 7 |
| 3.1.1 Permitting | 7 |
| 3.1.2 Subsurface Utility Clearance | 7 |
| 3.1.3 Health and Safety Plan | 7 |
| 3.2 Temporary Soil Borings..... | 8 |
| 3.2.1 Drilling and Lithologic Logging..... | 8 |
| 3.2.2 Depth-Discrete Soil Sampling | 9 |
| 3.2.3 Grab Groundwater Sampling..... | 10 |
| 3.3 Groundwater Monitoring Wells..... | 10 |
| 3.3.1 Monitoring Well Installation | 11 |
| 3.3.2 Well Development | 13 |
| 3.3.3 Initial Groundwater Sampling..... | 13 |
| 3.4 Laboratory Analyses..... | 14 |
| 3.5 Field Documentation..... | 14 |
| 3.6 Soil Boring and Well Location Survey | 14 |

| | | |
|-----|--|----|
| 4.0 | RESULTS OF CHARACTERIZATION INVESTIGATION..... | 14 |
| 4.1 | Lateral Extent of Petroleum Hydrocarbons in Soil..... | 16 |
| 4.2 | Vertical Extent of Petroleum Hydrocarbons in Soil..... | 16 |
| 4.3 | Leachability of Petroleum Hydrocarbons from Soil | 17 |
| 4.4 | Presence of Groundwater Beneath the Site | 17 |
| 4.5 | Petroleum Hydrocarbons in Groundwater | 18 |
| 5.0 | RESULTS FROM NEW GROUNDWATER MONITORING WELLS | 19 |
| 6.0 | CONCLUSIONS AND RECOMMENDATIONS | 19 |
| 6.1 | Conclusions | 19 |
| 6.2 | Recommendations..... | 21 |
| 7.0 | LIMITATIONS..... | 21 |
| 8.0 | REFERENCES | 23 |

TABLES

- 1 Sample Matrix for Samples Collected During the May 2008 Subsurface Investigation
- 2 Borehole and Groundwater Monitoring Well Construction Details
- 3 Petroleum Hydrocarbons Detected in Soil Samples
- 4 Petroleum Hydrocarbons and Associated Compounds Detected in Groundwater Samples

FIGURES

- 1 Site Location Map
- 2 Property Showing Areas of Concern
- 3 Area of Concern #8 Site Plan and Sample Location Map
- 4 Area of Concern #8 TPH Concentrations in Soil and Groundwater Samples
- 5 Area of Concern #8 Groundwater Elevations, June 5, 2008

APPENDICES

- A Soil Boring Permit
- B Soil Boring Logs and Well Completion Details
- C Laboratory Certified Analytical Reports
- D Groundwater Monitoring Well Development and Sampling Field Sheets

CERTIFICATIONS

LFR Inc. has prepared this Site Investigation and Well Installation Report on behalf of Hanson Aggregates 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 Geologist.




Expires Feb. 28, 2009

June 20, 2008

Katrin M. Schliewen, P.G.
Senior Hydrogeologist
California Professional Geologist No. 7808

Date



June 20, 2008

Ron Goloubow
Senior Associate Geologist

Date

EXECUTIVE SUMMARY

This Site Investigation and Well Installation Report presents the results and findings of additional subsurface investigations conducted by LFR Inc. (LFR) in the SS-123 area of the Hanson Aggregates Radum Facility (“the Site”) during May 2008. The primary objectives of the investigations were to further characterize the lateral and vertical extent of petroleum hydrocarbons in soil and groundwater, and to install groundwater monitoring wells to establish the groundwater flow direction and gradient and to monitor groundwater quality. The environmental investigations were conducted according to the scope of work described in the February 6, 2008 “Work Plan for Additional Site Characterization at AOC #8, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, SLIC Case RO0002952 and Geotracker ID SL0600101555,” which was submitted to Alameda County Environmental Health (ACEH) and subsequently approved by ACEH on February 26, 2008, with certain modifications.

In May 2008, seven temporary soil borings were advanced to collect soil and grab groundwater samples and two of the seven soil borings were converted to groundwater monitoring wells. The original scope of work had been to install a total of four groundwater monitoring wells, including one shallow and three deep wells. However, insufficient groundwater was encountered in two of the three locations proposed for deep groundwater monitoring wells and only one deep well was installed.

The results of this investigation were evaluated in conjunction with the results from previous investigations, and the following conclusions were reached:

- Asphalt material likely placed in the former aggregate extraction pits area during historical mining operations has resulted in longer chain total petroleum hydrocarbon (TPH) concentrations detected in depth-discrete soil and grab groundwater samples collected in the SS-123 area. Detected TPH concentrations are reported in the diesel-range (TPHd) and motor oil-range (TPHmo) petroleum hydrocarbons by the laboratory.
- The lateral extent of asphalt-affected soil has been sufficiently characterized in the SS-123 area (AOC #8) and is limited to an area extending approximately 250 feet north to south and approximately 100 to 170 feet east to west.
- The vertical extent of asphalt-affected soil has been sufficiently characterized and is limited to approximately the upper 40 feet below ground surface.
- There appears to be a shallow perched groundwater interval likely associated with historical aggregate mine pits in this area (fine sediment settling out of aggregate wash water placed in a former pit would have created a low permeable barrier to vertical infiltration). The shallow groundwater in this area has been affected by TPH associated with asphalt material in soil, in a laterally limited area extending only slightly farther south than the lateral extent of asphalt-affected soil.

- The deeper (possibly regional) groundwater, while not present at each soil boring location, does not appear to have been affected by asphalt material observed in soil and in the shallow groundwater interval.
- TPH detected in soil samples does not readily leach from the soil because it is related to the asphalt material, which is relatively immobile, has limited solubility, and represents a relatively minor threat to groundwater.
- Because only one of the three proposed deeper groundwater monitoring wells could be installed at the Site, insufficient data were collected to establish the local groundwater flow direction and gradient. The significant difference in groundwater elevations between the shallow well (MW-4(SS123)) and the adjacent deep groundwater monitoring well (MW-3(SS123)), approximately 18 feet, confirms the presence of hydraulically different groundwater intervals.

In general, the lateral and vertical extent of asphalt material in soil beneath the Site, and associated TPH concentrations detected in soil and grab groundwater samples, have been sufficiently characterized. Based on the results of the soil and groundwater quality data collected at the Site, LFR does not recommend any additional subsurface investigations be conducted. LFR does recommend that a periodic groundwater monitoring and reporting program be initiated for the two wells installed at the Site, including measuring depth to groundwater and conducting groundwater sampling and analysis for TPHd and TPHmo on a quarterly basis for up to one year. If the analytical results continue to be below laboratory reporting limits and/or San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels after approximately four consecutive quarterly monitoring events, the two groundwater monitoring wells should be properly abandoned.

1.0 INTRODUCTION

This Site Investigation and Well Installation Report presents the results and findings of additional subsurface investigations conducted by LFR Inc. (LFR) on behalf of Hanson Aggregates West Region (“Hanson”) to further characterize the extent of affected soil and groundwater in the SS-123 area of the former Hanson Aggregates Radum Facility located at 3000 Busch Road, Pleasanton, California (“the Site”; Figure 1). This area is also referred to as Area of Concern (AOC) #8, and is located within the property now owned by Legacy Partners (“Legacy”; AOC #8; Figure 2). The investigations were conducted on behalf of Hanson, which has retained the responsibility for characterizing the lateral and vertical extent of petroleum hydrocarbon-affected soil and groundwater at the Site.

The scope of work of the investigations conducted at the Site was described in the “Work Plan for Additional Site Characterization at AOC #8, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California” (“the Work Plan”), which was submitted to Alameda County Environmental Health (ACEH) on February 6, 2008. ACEH, as the regulatory agency overseeing the environmental characterization of the Site under ACEH case number #RO0002952 (Geotracker Global ID # SL0600101555), approved the Work Plan on February 26, 2008. In its approval letter, ACEH modified the proposed scope of work by requesting that two additional groundwater monitoring wells be installed to better assess the local groundwater flow direction.

In accordance with the scope of work in the Work Plan, as approved and modified by ACEH, LFR conducted investigations that included advancing temporary soil borings to collect soil and grab groundwater samples at locations approximately south of former soil boring SS-123 and installing groundwater monitoring wells. As described in this report, due to site conditions, only two of the requested four groundwater monitoring wells were installed (one shallow and one deep well). As such, the local groundwater flow direction and gradient could not be established. The locations of the temporary soil borings and the new groundwater monitoring wells are shown on Figure 3.

This report summarizes field activities performed to further characterize the lateral and vertical extent of petroleum hydrocarbons at the Site completed during May 2008, and presents and discusses results from these field activities. This report is organized as follows.

- Section 2.0 presents background information including a site history and summary of previous environmental investigations conducted at the Site.
- Section 3.0 describes the methodology of the investigations conducted during this investigation.
- Section 4.0 presents and discusses the results of the characterization investigations.

- Section 5.0 presents the results of the groundwater monitoring wells installed during the current characterization activities.
- Section 6.0 summarizes the overall conclusions of environmental conditions at the Site based on the results of the current and previous characterization investigations and presents recommendations.
- Section 7.0 defines LFR's professional limitations.
- Section 8.0 provides a reference list of primary documents related to environmental investigations conducted at the Site and throughout the Radum property to date.

2.0 BACKGROUND

2.1 Site Description and History

The approximately 1,050-acre property consisting of the former Radum facility is located at 3000 Busch Road, Pleasanton, California, partly within the city limits of Pleasanton and partly within an unincorporated area of Alameda County (Figures 1 and 2). The property includes three large ponds or lakes (Lake I, Lake H, and Cope Pond), created during historical aggregate mining operations, and approximately 320 acres of developable land (approximately the southern third; Figure 2). During 2007, the majority of the property was transferred to Legacy as part of a real estate transaction. Hanson retained ownership of an approximately 15-acre parcel (Parcel 1; AOC #1) located in the southwestern corner of the property, and also retained the responsibility for conducting the characterization investigations of petroleum hydrocarbon-affected soil and groundwater in the SS-123 area.

As described in the Phase I Environmental Site Assessment (ESA) by ENV America Inc. (ENV 2006a), mining of sand and gravel in the Livermore-Amador Valley began prior to 1900. Mining at the property began in approximately 1938 by Kaiser Sand and Gravel. Reportedly, as sections of the property were mined out, the former mining pits were used for storage and/or as disposal ponds for water (from dewatering of new pits) and fine-grained sediments (silt and sand) washed out of the aggregate material. In addition, some mining pits likely were backfilled with debris and mine waste, as is evident from debris encountered during drilling in various areas of the property. Hanson purchased the property in 1991 and continued mining operations until 2001 when mining was discontinued due to lack of available aggregate materials. Based on subsurface investigations conducted throughout the property, historical mining and aggregate processing operations have resulted in localized petroleum hydrocarbon-affected soil and groundwater in certain localized areas.

A review of air photos provided as Exhibit B of ENV's Phase I ESA report shows that approximately during the 1950s to 1980s, one or more aggregate mine pits existed in the SS-123 area. The lithology of the soil cores collected during drilling in the SS-123

area is consistent with lithology of a former aggregate mine pit, filled with fines settled out of wash water and debris backfill material.

2.2 Regional and Site Geology and Hydrogeology

2.2.1 Regional Geology and Hydrogeology

The regional geology and hydrogeology summarized in this section are based on information provided in the most recent Zone 7 Water Agency, Alameda County Flood Control and Water Conservation District (“Zone 7”) Annual Report for the Groundwater Management Program (Zone 7 2007). The Radum property is located in the Livermore-Amador Valley, an east-west trending valley surrounded by north-south trending faults and hills that are part of the Diablo Range. The Site lies within the Main Basin of the Livermore-Amador Valley Groundwater Basin and, more specifically, within the Amador Sub-Basin (Zone 7 2007).

The regional geology consists primarily of alluvial deposits (fan, stream, and lake) that range in thickness from a few feet at the margins to almost 800 feet in the west-central portions of the valley (Zone 7 2007). The alluvial deposits consist primarily of gravels and sands and are underlain by the Livermore Formation, which consists of relatively less permeable clayey gravels and sands, and silts and clays. Two major aquifer zones have been identified: the “Upper Aquifer Zone” and the “Lower Aquifer Zone.” The Upper Aquifer Zone is generally unconfined and consists of unconsolidated coarse-grained alluvial sediments (primarily sandy gravel and sandy clayey gravel) encountered beneath surficial clays and between approximately 20 to 40 feet below ground surface (bgs) and 80 to 150 feet bgs. Permeable sediments encountered beneath the Upper Aquifer Zone and the underlying clay aquitard are grouped into the Lower Aquifer Zone, which is semi-confined to confined.

2.2.2 Site Geology and Hydrogeology

Subsurface investigations conducted by LFR and ENV at the Site have encountered unconsolidated sediments consisting predominantly of fine-grained sediments (clays and silts) with intervals of coarser-grained sediments (mostly gravels and to a lesser extent sands) and of what appear to be large pieces of concrete. Soil borings advanced in the SS-123 area also have encountered asphalt materials, characterized as a black and in some cases “sticky” material covering generally coarser-grained sediment. Because of the historical aggregate mining activities throughout the property, and evidence of aggregate mine pits at the Site, the subsurface likely consists of imported fill material in addition to native sediments.

First groundwater beneath the Site has been encountered between approximately 14 and 30 feet bgs in temporary soil borings advanced by LFR and ENV during the previous and current investigations. In previous reports, ENV concluded that a perched zone likely exists in the SS-123 area, a result of fine-grained sediment settling out of

aggregate wash water stored in the former mine pits (ENV 2007c). As described below, one objective of the subsurface investigations completed during May 2008 by LFR was to confirm the potential presence of a perched groundwater zone. Results of the May 2008 investigation do indicate the possible presence of a perched groundwater zone and the presence of a former mining pit that has been backfilled with fill material. Depth to groundwater measured in the two new groundwater monitoring wells was approximately 22 feet bgs in the shallow well and approximately 40 feet bgs in the deep well. Although the groundwater flow direction in the SS-123 area could not be confirmed by this investigation, the local groundwater flow direction in the AOC #1 area appears to be generally to the northwest (LFR 2007d).

2.3 Summary of Previous Site Investigations Conducted at the Site

Several subsurface investigations have been conducted previously at the Site by ENV and LFR. The Site was first identified as a potential environmental concern based on results from former soil boring SS-123 advanced by ENV in January 2007 as part of a site-wide subsurface investigation completed by ENV on behalf of Legacy where temporary soil borings were advanced in randomly chosen locations throughout the property. Analytical results from depth-discrete soil samples collected from former soil boring SS-123 indicated the presence of total petroleum hydrocarbon- (TPH-) affected soil between approximately 20 and 40 feet bgs; no groundwater samples were collected at the time (ENV 2007a). ENV subsequently completed two additional phases of investigations in the SS-123 area. The second phase, completed during March 2007, consisted of advancing four temporary soil borings (SS-123(A) through SS-123(D)) in step-out locations approximately 25 feet to the east, south, west, and north of the original SS-123 location (ENV 2007b). The third phase, completed during May 2007, consisted of advancing four additional temporary soil borings (SS-123(E) through SS-123(H)) in step-out locations approximately 125 feet to the east, south, west, and north of the original SS-123 location (ENV 2007c). Based on the results of the three investigations completed by ENV, the extent of asphalt material and associated TPH in soil was sufficiently characterized laterally to the west, north, and east, but not to the south.

Results indicated that soil from near ground surface to approximately 30 feet bgs was affected by longer chain TPH concentrations in the diesel range (TPH_d) and in the motor oil range (TPH_{mo}). In addition, grab groundwater samples collected from approximately 25 to 30 feet bgs in soil borings located within approximately 25 feet of the original soil boring SS-123 and from soil boring SS-123(F), located approximately 125 feet south of SS-123, were affected with TPH. The vertical extent of TPH-affected soil also was not sufficiently characterized. Based on the results of their three phases of investigations in the SS-123 area, ENV concluded that a perched groundwater interval exists beneath the Site and that TPH-affected groundwater was not representative of general groundwater geochemistry conditions at the Site.

During July 2007, LFR advanced four temporary soil borings to further characterize the lateral extent of TPH-affected soil and groundwater contamination, primarily to the south of former boring SS-123(F), by advancing soil borings SS-123(F1) through SS-123(F3) (Figure 3). In addition, LFR attempted to characterize the vertical extent of contamination immediately adjacent to former boring SS-123 and to confirm the presence of a perched groundwater interval by advancing soil boring SS-123(AA) using hollow-stem auger technology (HSA). The results of LFR's July 2007 investigation indicated that petroleum hydrocarbon-affected soil was sufficiently characterized to the west, north, and east; however, TPH-affected groundwater again was identified in the southernmost soil boring (SS-123(F2)). In addition, due to site conditions, LFR was not successful in confirming the presence of a perched zone or in sufficiently characterizing the vertical extent of contamination in the SS-123 area. Based on the results of ENV's and LFR's investigations completed during 2007, LFR recommended that additional subsurface investigations be conducted to further characterize the lateral extent of affected soil south of former boring SS-123(F2) and the vertical extent of TPH-affected soil and groundwater in the SS-123 area (LFR 2007c).

2.4 Regulatory Determinations

Based on its review of summary reports presented by LFR and ENV, ACEH requested in a letter dated November 28, 2007 that a work plan be submitted presenting a scope of work to further characterize the lateral and vertical extent of contamination in the SS-123 area. Specifically, ACEH requested that a minimum of two deeper soil borings be advanced to confirm the presence of perched groundwater in the vicinity of soil boring SS-123, and to assess whether the regional aquifer has been affected or is potentially threatened (ACEH 2007e). LFR submitted a work plan dated February 6, 2008 (LFR 2008a), describing the following scope of work:

- Advance three new temporary soil borings located approximately east, southwest, and west of former boring SS-123(F2). Two relatively shallow borings were proposed to be advanced to approximately 30 feet bgs and one relatively deeper boring to approximately 60 feet bgs. The deeper soil boring was proposed to be advanced using sonic drilling methods with an outer casing to isolate a potential perched groundwater interval before advancing to sample deeper groundwater, if present.
- Collect depth-discrete soil samples and grab groundwater samples from the temporary soil borings to further characterize the lateral extent of asphalt material and TPH south of former boring SS-123(F2).
- Confirm the potential presence of a perched groundwater interval.
- Install two groundwater monitoring wells located approximately south and southeast of former boring SS-123(F2). One well would be constructed to sample the potentially perched groundwater and one to sample relatively deeper groundwater. Develop and sample the new wells.

Per ENV's request to Hanson, LFR proposed to conduct leachability analyses on selected soil samples collected from temporary soil borings. In the event that asphalt material is observed in the soil core, representative soil samples would be collected to be split for analyses both as conventional soil samples and as leachate samples using the waste extraction test (WET) and deionized (DI) water. DI water was used instead of citric acid as the reagent to mimic groundwater conditions. Results from the leachability analyses were used to assess the potential of hydrocarbon constituents to leach from TPH-affected soil and affect underlying groundwater.

ACEH approved the Work Plan and provided technical comments in a February 26, 2008 letter. ACEH requested that four groundwater monitoring wells be installed instead of two, three of which would be relatively deep to establish the local groundwater flow direction and gradient beneath the Site. In addition, ACEH specified that a minimum of 24 hours pass before conducting well development and a minimum of 48 hours before sampling the new wells for the first time.

2.5 Investigation Objectives and Scope of Work

The primary investigation objectives were described as follows:

- Further characterize the lateral extent of asphalt and associated TPH-affected soil south of the SS-123 area.
- Further characterize the lateral extent of TPH-affected groundwater encountered between approximately 18 to 30 feet bgs south of the SS-123 area.
- Assess the leachability of the asphalt material encountered in the upper approximately 25 feet of sediments.
- Investigate the potential presence of a perched groundwater interval.
- Characterize the quality of deeper groundwater beneath the first groundwater, anticipated to be encountered between approximately 50 and 60 feet bgs.
- Determine the groundwater flow direction of the "regional aquifer."

To achieve these objectives, LFR modified the original scope of work to incorporate the ACEH technical comments and ENV's request to conduct WET leachability analyses on select soil samples.

The final scope of work describing the activities conducted during May 2008 included the following:

- Advance a total of seven soil borings in the SS-123 area: six in step-out locations approximately to the east, south, and west of former boring SS-123(F2), and one approximately northeast of former boring SS-123(D). Advance three of the soil borings to approximately 30 feet bgs and four of the soil borings to approximately 65 feet bgs.

- Collect continuous soil cores from each soil boring for soil logging. Collect depth-discrete soil and grab groundwater samples for laboratory analyses. Analyze soil and grab groundwater samples for TPHd- and TPHmo-range constituents, after silica gel cleanup, and analyze grab groundwater samples also for benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds).
- Select representative depth-discrete soil samples collected from intervals where asphalt material is observed in the soil cores for leachability testing using the WET methods with DI water.
- Convert three of the deep soil borings and one of the shallow soil borings to groundwater monitoring wells. Develop and sample the new groundwater monitoring wells.

3.0 INVESTIGATION METHODOLOGY

3.1 Pre-Field Activities

3.1.1 Permitting

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.

3.1.2 Subsurface Utility Clearance

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. Surface soils were too compacted to hand-auger the upper 5 feet as generally is preferred; drilling was initiated starting at ground surface.

3.1.3 Health and Safety Plan

An 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. Daily health and safety tailgate meetings were conducted prior to beginning fieldwork, and fieldwork was monitored to ensure that appropriate health and safety procedures were followed during the field investigations.

In accordance with Hanson's standard facility operations, LFR and LFR's subcontractors also attended on-site health and safety training conducted by a Hanson representative.

3.2 Temporary Soil Borings

During the May 2008 investigation in the SS-123 area, LFR advanced seven temporary soil borings to depths ranging approximately from 27 to 81 feet bgs, as described below. Soil boring locations SS-123(F4), SS-123(F5), SS-123(F6), MW-1(SS123), and MW-2(SS123) are shown on Figure 3. Locations MW-3(SS123) and MW-4(SS123) were converted to groundwater monitoring wells, as described in Section 3.3 of this report. Table 2 presents a summary of total depths drilled at each of the seven locations and a summary of well completion details for the two wells installed.

3.2.1 Drilling and Lithologic Logging

LFR subcontracted Boart Longyear, of Santa Fe Springs, California, and Gregg Drilling and Testing, Inc. (Gregg Drilling), of Martinez, California, both state-certified drilling subcontractors, to conduct the soil boring drilling and well installation work. Boart Longyear conducted the drilling of the deeper borings using sonic drilling technology, and Gregg Drilling conducted the drilling of the shallow borings using 6-inch-diameter HSA drilling technology. Drilling, soil and grab groundwater sampling, and well installation activities were completed during May 19 through May 23, 2008.

The sonic drilling of the deeper soil borings was conducted by first advancing a relatively large-diameter outer drill casing (8-inch diameter). The outer casing was used to seal potentially perched groundwater from entering the soil boring while advancing a relatively smaller-diameter (6-inch diameter) inner drill casing to deeper groundwater. The HSA drilling of the shallow soil borings was conducted using standard HSA technology.

During drilling using both the sonic and the HSA technologies, continuous soil cores were collected for lithologic evaluation and field screening. Essentially 100% recovery of soil cores was achieved using the sonic drilling technology, and approximately 50% or less recovery was achieved using the HSA drilling technology. Field boring logs were prepared by an LFR field geologist for each soil boring location. Field boring logs contain lithologic soil descriptions based on the Unified Soil Classification System (American Society for Testing and Materials D2488-00), general field screening observations including indications of contamination, and depth to first encountered groundwater, and identify the intervals selected for laboratory analyses and sample identifications. Soil boring logs were reviewed and edited by a California Professional Geologist, and were transcribed into report-quality graphic logs presented in Appendix B.

Soils encountered during drilling consisted predominantly of fine-grained sediments (silts and clays) with intervals of coarser-grained sediments (sands and gravels). Several instances of concrete, organic, and asphalt materials were observed in the soil cores. Soil cores were screened for the possible presence of petroleum hydrocarbons,

using visible or olfactory indications and using a portable photoionization detector (PID). Field screening observations indicated the possible presence of petroleum hydrocarbons in sporadic soil intervals. Asphalt material was noted in the soil cores for borings MW-1(SS123) at 13, 20, and 50 feet bgs, MW-2(SS123) at 15 feet bgs, SS-123(F4) at 18 feet bgs, and SS-123(F5) at 10 and 18 feet bgs. Other than visual observations of asphalt materials noted above, no odor was observed or elevated PID readings measured.

Downhole drilling and sampling equipment was appropriately cleaned by the drilling subcontractors before it arrived on-site and before use at each new drilling location. After soil and groundwater samples were collected, three of the boreholes were abandoned by sealing them with a mixture of cement and bentonite (“grout”) from the bottom of the soil borings up to the ground surface using a tremie pipe. Waste soil generated during drilling was placed either on plastic tarps or directly on the ground surface near each temporary soil boring for future disposal during future land development activities. No significant amounts of wastewater were generated during the drilling activities.

3.2.2 Depth-Discrete Soil Sampling

LFR collected depth-discrete soil samples for laboratory analyses from intervals where field screening and field observations indicated the possible presence of petroleum hydrocarbons in the soil. Where no indication of contamination was observed in the soil cores, LFR collected depth-discrete soil samples at approximately 5-foot intervals, depending on the soil boring location. In general, soil samples were not collected from below the water table, particularly if a grab groundwater sample could be collected. However, depending on field conditions and the potential presence of a perched groundwater interval, depth-discrete soil samples were collected in certain soil borings from deeper than first encountered groundwater.

Soil samples selected to be submitted for laboratory analyses were transferred from the core barrel to clean, laboratory-supplied 8-ounce glass jars, which were sealed, properly labeled, and stored in ice-chilled coolers for daily transport to the analytical laboratory under chain-of-custody protocol. Approximately seven soil samples collected from intervals where asphalt material was observed in the soil cores were selected for leachability testing. For these sample intervals, a larger soil sample volume was collected in clean, laboratory-supplied 16-ounce glass jars. As requested on the chain-of-custody form, the laboratory split these soil samples, analyzing approximately one half of the sample as a soil matrix and the second half as a water sample after conducting the leachate extraction procedure using DI water.

3.2.3 Grab Groundwater Sampling

Shallow Groundwater

Each of the seven soil borings was advanced deep enough to encounter shallow (possibly perched) groundwater, and grab groundwater samples were collected from each location except soil boring MW-3(SS123) where insufficient water was present at the time of drilling to collect a grab groundwater sample (Figure 3). At each location, after the target depth was reached, a temporary polyvinyl chloride (PVC) well screen and casing was placed through the drill stem, which in turn was raised approximately 3 to 5 feet to allow groundwater to enter the borehole. Grab groundwater samples were collected using clean, disposable bailers lowered into the PVC casing and gently pouring the groundwater from the bailer into the appropriate clean, laboratory-supplied water sample containers. Sample containers were properly labeled and stored in ice-chilled coolers for daily transport to the analytical laboratory under chain-of-custody protocol.

Deep Groundwater

Deeper (possibly more regional) groundwater appears to have been encountered in each of the four deepest soil borings at estimated depths of approximately 40 to 45 feet bgs (estimated from sediment moisture content based on field observations). However, as discussed in Section 4.0, field conditions were such that the deeper sediments generally did not yield sufficient groundwater to collect grab groundwater samples. The only confirmed depth-to-water measurement made for the deeper groundwater interval was in well MW-3(SS123) after installation.

3.3 Groundwater Monitoring Wells

Two groundwater monitoring wells (MW-3(SS123) and MW-4(SS123)) were installed at the Site during May 22 and 23, 2008, located approximately adjacent to each other and approximately west of former boring SS-123(F2) (Figure 3).

Soil Boring Locations MW-1(SS123) and MW-2(SS123)

No wells were installed in soil borings MW-1(SS123) and MW-2(SS123), initially planned to be converted to deep groundwater monitoring wells, because insufficient groundwater was encountered in these two locations during drilling to justify installing groundwater monitoring wells. In the MW-1(SS123) location, a predominantly fat clay was encountered approximately from 63 feet bgs to the total depth of the boring at 81 feet bgs. Although the clay was described as being wet, no water entered the borehole during drilling. In the MW-2(SS123) location, a predominantly lean clay (with approximately 10 to 20% sand and gravel content between approximately 70 and 80 feet bgs) was encountered from approximately 23.5 feet bgs to the total depth of the boring at 81 feet bgs. Similarly to soil boring MW-1(SS123), although the clay

appeared to be wet, only an insignificant amount of water entered the borehole during drilling. At approximately 75 feet bgs, in a sandy lean clay interval, an attempt was made to collect a grab groundwater sample from the borehole. Approximately half of a 1-liter amber glass sample container was filled with sediment-laden water. As noted in Tables 1, 3, and 4, the laboratory could not extract sufficient water from this sample for analyses, and therefore analyzed the sample as a soil sample rather than a water sample. This observation confirmed that water would not significantly enter a well installed in this location.

3.3.1 Monitoring Well Installation

The well installation activities were completed by Boart Longyear (MW-3(SS123)) and by Gregg Drilling (MW-4(SS123)) by converting the two temporary soil borings to wells after all depth-discrete soil and grab groundwater samples were collected. The total depth and well screen interval for each well was targeted to monitor the deeper, possibly regional, groundwater (MW-3(SS123)) and the shallow, possibly perched, groundwater (MW-4(SS123)). A summary of well construction details is included in Table 2.

Each monitoring well was constructed using 2-inch-diameter Schedule 40 PVC well casing and machine-slotted Schedule 40 PVC well screens with a 0.020-inch slot size. Well screen filter packs consisting of #2/16 and #3 clean silica sand (for the deep and the shallow wells, respectively) were placed in the borehole annular space around each well screen interval and extended to approximately 2 feet above the top of the well screen. Coated bentonite pellets were placed in the annular space above the filter packs to create an approximately 2- to 3-foot-thick bentonite seal between the filter pack and the cement grout used to fill the remaining annular space to near ground surface.

Each monitoring well casing is equipped with a locking well cap. The surface completions consist of 4-inch-square, aboveground, stove-pipe well boxes equipped with locking access lids, installed in concrete pads. Three steel bollards were installed surrounding each well to protect the well casing and box from damage.

The well completion details are included on the soil boring logs presented in Appendix B, and are summarized in Table 2.

Well MW-3(SS123)

Well MW-3(SS123), located approximately west-northwest of former boring SS-123(F2) (Figure 3; Appendix B), was installed as a deep groundwater monitoring well to a total depth of approximately 70 feet bgs with a 10-foot-long well screen. During drilling, shallow groundwater was first encountered at approximately 17 feet bgs, in a silty sand interval, and again at approximately 31 feet bgs, in a gravelly silt interval. However, sediments did not yield sufficient groundwater to collect a grab groundwater sample. Deeper groundwater was encountered at approximately 60 feet

bgs, in a silty sand. A temporary well was installed and left overnight; however, by the next morning, the borehole had collapsed to approximately 55 feet bgs and water did not sufficiently re-enter the borehole to collect a groundwater sample as the boring was advanced to the total depth of 71 feet bgs. Well MW-3(SS123) was installed in this location based primarily on observations of water in the borehole made the previous day.

It should be noted that, prior to installing well MW-3(SS123), Boart Longyear added potable water to the borehole to lubricate the inner and outer drill casings to facilitate controlled retraction of the drill casings during well installation activities. It was estimated that approximately 10 gallons of water were added.

Well MW-3(SS123) was constructed on May 22, 2008 with a well screen extending from approximately 60 to 70 feet bgs (see well log in Appendix B). On May 29, 2008, before well development activities were begun, the depth to water in well MW-3(SS123) was measured to be approximately 41.5 feet below top of casing (TOC), equivalent to an approximately 30-foot column of water in the well. However, as described further below, well development activities revealed that well MW-3(SS123) recharged slowly, indicating that the sediments have low permeability at this location. The 30-foot water column observed prior to well development may have been a combination of potable water added during well installation and formation water although, as described below, approximately 25.5 gallons of water were removed from the well during well development activities. In addition, prior to sampling of well MW-3(SS123) on June 5, 2008, the water level was measured to be approximately 40.2 feet TOC. Based on these field observations, although groundwater at well MW-3(SS123) does not recharge significantly, there appears to be a consistent water column of approximately 30 feet in this location.

Well MW-4(SS123)

Well MW-4(SS123), located adjacent to well MW-3(SS123) and approximately west of former boring SS-123(F2) (Figure 3), was installed as a shallow groundwater monitoring well to a total depth of approximately 28 feet bgs with a 10-foot-long well screen (Appendix B). During drilling, shallow groundwater was first encountered at approximately 16 feet bgs in a poorly graded sand with silt interval observed from approximately 13.5 to 30 feet bgs.

Well MW-4(SS123) was constructed on May 23, 2008 through the HSA with a well screen extending from approximately 18 to 28 feet bgs. On May 29, 2008, before well development activities were begun, the depth to water in well MW-4(SS123) was measured to be approximately 22 feet TOC, equivalent to approximately 8 feet of water in the well. Similarly to well MW-3(SS123), well MW-4(SS123) recharged slowly during well development. However, prior to groundwater sampling on June 5, 2008, the depth to water again was measured at approximately 22 feet bgs, indicating the presence of consistent groundwater in this location.

3.3.2 Well Development

The two new groundwater monitoring wells were developed approximately six days after installation. LFR subcontracted Boart Longyear to conduct the well development under the direction of an LFR field geologist on May 29, 2008. An LFR field geologist conducted additional well development using disposable bailers on May 30, 2008. The initial well development activities included a combination of surging (using a surge block) and pumping (using a submersible pump and/or steel bailer, and subsequently using disposable bailers) to remove fine-grained sediment from the wells and improve their hydraulic efficiency.

Both wells MW-3(SS123) and MW-4(SS123) dewatered during pumping at rates of approximately 0.5 to 1 liter per minute. The wells were left to recharge partially before resuming pumping, at which point they dewatered again. Pumping using a submersible pump was halted, and bailing resumed using a steel bailer. The wells were bailed again the following day using disposable bailers. During the two days of well development, approximately 25.5 gallons of water were removed from well MW-3(SS123), equivalent to approximately five casing volumes, and approximately 16 gallons of water were removed from well MW-4(SS123), equivalent to approximately 12 casing volumes. Although a significant amount of fine-grained sediment was removed from each well, the turbidity of groundwater in each well remained relatively elevated. Water-quality parameters, including pH, temperature, specific conductance, and turbidity, were recorded during well development activities, as were depth to water and total well depth before, during, and after well development. Copies of well development field forms are included in Appendix D.

3.3.3 Initial Groundwater Sampling

Wells MW-3(SS123) and MW-4(SS123) were purged and sampled using low-flow sampling techniques on June 5, 2008, approximately six days after well development was completed. Low-flow purging and sampling were conducted using small-diameter submersible Grunfos pumps lowered to within the well screens. To minimize cross-contamination between the two wells, a separate clean Grunfos pump was used in each well. Flow rates were maintained at approximately 50 or 100 milliliters per minute. Low-flow purging was conducted in accordance with the U.S. Environmental Protection Agency's (EPA's) 1996 low-flow guidance document (EPA 1996), which states that drawdown should be minimized to less than 0.3 foot, or stable, or at least maintained above the well screen, while observing stabilized general water-quality parameters.

Drawdown and general water-quality parameters were monitored during purging, and parameters were recorded on field sheets, copies of which are included in Appendix D. For well MW-3(SS123), low-flow purging was achieved when the general water-quality parameters stabilized while maintaining the water level above the well screen. For well MW-4(SS123), low-flow purging was achieved when the general water-quality parameters stabilized and the water level remained at a stable depth within the

well screen. Groundwater samples were collected after low-flow purging was completed.

Groundwater samples were collected in clean, laboratory-provided sample containers and stored in an ice-chilled cooler for transportation to the laboratory under chain-of-custody protocol. Because dedicated tubing and pumps were used, no quality assurance and quality control (QA/QC) samples were collected during this initial groundwater sampling event.

3.4 Laboratory Analyses

All soil, soil leachate, and groundwater samples selected for laboratory analyses were submitted to Curtis & Tompkins, Ltd., a California-certified analytical laboratory located in Berkeley, California. Samples were analyzed for one or more of the following parameters, according to the sample matrix presented in Table 1:

- TPHd and TPHmo by EPA Method 8015 (after undergoing silica gel cleanup)
- BTEX by EPA Method 8260

Analytical results are summarized in Tables 3 and 4 based on laboratory-certified analytical reports included in Appendix C.

3.5 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. Forms will be kept on file at LFR and will be available upon request.

3.6 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 and groundwater monitoring wells, and the TOC elevations of the new groundwater monitoring wells. Soil boring and well locations from the May 2008 field investigations presented on Figures 3 through 5 are based on the land survey results.

4.0 RESULTS OF CHARACTERIZATION INVESTIGATION

Results from the investigations conducted at the Site during May 2008 are discussed in this section. A summary of analytical results is presented in Tables 3 and 4, based on laboratory-certified analytical reports included in Appendix C. Analytical results of TPHd and TPHmo concentrations in soil, soil leachate, and groundwater samples are presented on Figure 4, and water-level elevation data are presented on Figure 5.

Analytical results were compared to the November 2007 San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for shallow or deep soils and groundwater beneath commercial/industrial land use areas where water is considered a current or potential drinking water source (RWQCB 2007). Relevant ESLs are included in the summary tables, and compounds detected at concentrations that exceed the ESLs are highlighted both in Tables 1, 3, and 4 and on Figure 4.

It should be noted that, although TPHd and TPHmo concentrations are reported by the laboratory and presented in this report, based on field observations and historical mining operations, the TPHd- and TPHmo-range hydrocarbons detected in samples do not indicate the presence of TPHd and TPHmo in soil or groundwater, but rather are associated with asphalt material in the subsurface. The TPHd- and TPHmo-range hydrocarbon concentrations detected in samples likely are a result of the analytical method used by the laboratory in which a solvent is used to extract the sample in preparation for analysis. TPH associated with asphalt material does not leach out under natural conditions, as confirmed by the results of the leachability testing using DI water conducted on selected soil samples.

The results of the May 2008 investigations are consistent with results from previous investigations. Groundwater samples collected during the May 2008 investigation also were analyzed for BTEX compounds. With one exception, BTEX compounds were not detected in any of the groundwater samples (toluene was detected at a low concentration just above the reporting limit in the grab groundwater sample collected from soil boring SS-123(F5) at approximately 25 feet bgs).

In general, analytical results for samples collected during the May 2008 investigations indicated that only one soil sample and two grab groundwater samples contained TPHd- and/or TPHmo-range hydrocarbons detected at concentrations that exceeded the ESLs. Soil samples collected from intervals where no asphalt material was observed did not contain significant TPH concentrations. In contrast, in soil samples collected from intervals where asphalt material was observed, elevated TPHd and TPHmo concentrations were reported by the laboratory. For example, the soil sample collected from approximately 50 feet bgs from boring MW-1(SS123) resulted in a TPHd concentration that exceeded the ESL, and the grab groundwater samples collected from approximately 18 and 23 feet bgs (shallow groundwater) from borings MW-1(SS123) and MW-2(SS123), respectively, each resulted in TPHd and TPHmo detected at concentrations that exceeded the ESLs (Table 3 and Figure 4). As noted on the soil boring logs, these samples were collected from, or near, intervals where asphalt material was observed in the soil cores.

In addition, the six soil samples selected from intervals containing asphalt material that underwent leachate extraction using the WET procedure with DI water did not contain TPHd- or TPHmo-range hydrocarbons at concentrations above laboratory reporting limits. Analytical results for the soil leachate samples indicate that TPH will not readily leach from asphalt material in soil beneath the Site.

Results of the May 2008 characterization investigations are discussed below in relation to results from previous investigations conducted at the Site.

4.1 Lateral Extent of Petroleum Hydrocarbons in Soil

Six soil borings were advanced to the east, south, and west of former boring SS-123(F2), previously the southernmost boring in the SS-123 area that contained TPH-affected groundwater (Figure 4). Similarly to analytical results for boring SS-123(F2), none of the soil samples collected contained TPHd or TPHmo above their respective ESLs. The lateral extent of TPH associated with asphalt in soil has been sufficiently characterized based on step-out soil boring locations in every direction from the original soil boring SS-123. As shown by analytical results presented on Figure 4, the lateral extent of asphalt-affected soil appears to be limited to an area that extends approximately 250 feet north-south (from north of boring MW-1(SS123) to south of former boring SS-123(F)) and approximately 170 feet east-west (from east of former boring SS-123(A) to west of former boring SS-123(C); Figure 4). The lateral extent east-west near former boring SS-123(F) is even less, approximately 100 feet.

Based on the results of this investigation and previous investigations, the lateral extent of petroleum hydrocarbons in soil has been sufficiently characterized and appears to be limited.

4.2 Vertical Extent of Petroleum Hydrocarbons in Soil

The four deepest soil borings were advanced to approximately 71 and 81 feet bgs to collect depth-discrete soil and grab groundwater samples for analysis and thus assess the vertical extent of petroleum hydrocarbons in soil. Analytical results for soil samples collected from soil boring MW-1(SS123) located north of the original boring SS-123, provide vertical characterization of asphalt-affected soil in the area where the highest concentrations have been detected. At this location, deep soil samples were collected from approximately 50, 63, and 79 feet bgs. TPHd and TPHmo were detected in each of these soil samples, but at significantly decreasing concentrations with depth (Table 3 and Figure 4). The soil sample collected from approximately 50 feet bgs resulted in a TPHd concentration of 220 milligrams per kilogram (mg/kg), which is above the ESL of 83 mg/kg; however, the soil samples collected from approximately 63 and 79 feet bgs resulted in TPHd concentrations of 10 and 2.8 mg/kg, respectively. The ESL for TPHmo was not exceeded in any of these deeper soil samples.

With the exception of the soil sample collected from approximately 50 feet bgs from soil boring MW-1(SS123), discussed above, soil samples collected from below approximately 40 feet bgs did not contain TPHd- or TPHmo-range hydrocarbons above the laboratory reporting limits or contained low concentrations below the ESLs. Based on the results of this investigation, the vertical extent of petroleum hydrocarbons in soil has been sufficiently characterized and generally appears to be limited vertically to less than approximately 40 feet bgs.

4.3 Leachability of Petroleum Hydrocarbons from Soil

Six depth-discrete soil samples collected from intervals containing asphalt material in four soil borings were analyzed for TPHd and TPHmo leachability using the WET leach procedure with DI water. The results of the WET analyses are summarized in Table 3 and on Figure 4. Soil samples for the leach test were selected based on the presence of asphalt material observed in soil cores during drilling. Based on field observations, these soil samples were expected to result in the highest TPH concentrations. After the WET procedure, the soil leachate underwent silica gel cleanup and the samples were analyzed as water samples. In all cases, the analytical results showed that the soil leachate did not contain TPHd- or TPHmo-range hydrocarbons above the laboratory reporting limits.

For example, the highest concentrations detected in soil samples collected during May 2008 were in the soil sample collected from approximately 50 feet bgs from soil boring MW-1(SS123). As noted on the soil boring log, asphalt material was observed in the coarse-grained intervals identified between approximately 50 and 56 feet bgs (Appendix B). TPHd- and TPHmo-range hydrocarbons were detected in this soil sample at concentrations of 220 mg/kg and 2,300 mg/kg, respectively; however, neither TPHd nor TPHmo was detected above the laboratory reporting limits in the soil leachate sample (Table 3).

Based on the results of this investigation, petroleum hydrocarbons present in soil in limited areas beneath the Site do not readily leach out of the soil.

4.4 Presence of Groundwater Beneath the Site

Shallow (possibly perched) groundwater was encountered in all soil boring locations between approximately 15 and 26 feet bgs. Shallow grab groundwater samples were collected for laboratory analyses from each boring location, except for boring MW-3(SS123) where insufficient water was present in the borehole at the time of drilling to collect a shallow grab groundwater sample.

During drilling, deeper (possibly regional) groundwater appears to have been encountered in each of the four deepest soil borings at estimated depths of approximately 40 to 45 feet bgs. In addition, the depth to water in well MW-3(SS123) was measured to be approximately 41.5 feet bgs. However, no grab groundwater samples could be successfully collected from any of the deeper soil borings due to insufficient deep groundwater entering the boreholes. At soil boring MW-2(SS123), a small sample of sediment-laden water was collected from approximately 75 feet bgs after the borehole was left open overnight; however, the laboratory could not extract sufficient water to analyze the sample as a water sample and instead analyzed the sample as a soil sample.

Results from well development activities conducted at well MW-3(SS123) confirmed that the deeper groundwater interval has relatively low permeability.

Two groundwater monitoring wells were installed at the Site: well MW-3(SS123) (deep well) and well MW-4(SS123) (shallow well; Figure 3). Given their close proximity to each other (less than approximately 30 feet), these two wells can be considered a well pair. The approximately 18-foot difference in groundwater elevations measured in these two adjacent wells indicates that they are monitoring two different groundwater zones, likely a shallow perched groundwater zone and a deeper (possibly regional) groundwater zone.

4.5 Petroleum Hydrocarbons in Groundwater

Previous investigations have indicated that shallow groundwater samples collected from approximately 18 to 30 feet bgs are affected by TPH at concentrations above their ESLs for TPHd or TPHmo in the vicinity of original soil boring SS-123 and to the south in former borings SS-123(F) and SS-123(F2) (Figure 4). The May 2008 investigation included collecting shallow groundwater samples in step-out locations east, south, and west of former boring SS-123(F2). Only the grab groundwater sample collected from approximately 23 feet bgs from boring MW-2(SS123) contained TPHd- and TPHmo-range hydrocarbons at concentrations above the ESLs for TPHd or TPHmo. Shallow grab groundwater samples collected from borings SS-123(F1) and SS-123(F4) located approximately north and south, respectively, of boring MW-2(SS123) did not contain TPH above ESLs or laboratory reporting limits (Figure 4). Based on results of the May 2008 and previous investigations, the lateral extent of TPH-affected shallow groundwater has been sufficiently characterized and is limited to an area similar to the lateral extent of soil containing asphalt material.

No grab groundwater samples representative of deeper groundwater could be collected during the May 2008 investigations. However, analytical results from soil leachate samples indicate that the asphalt in soil does not readily leach TPH into groundwater. The elevated concentrations of TPH detected in grab groundwater samples previously collected at the Site are likely associated with fine sediment and asphalt material that is contained within the grab groundwater sample(s).

The groundwater samples collected from both the shallow (MW-4(SS123)) and the deep (MW-3(SS123)) groundwater monitoring wells installed during May 2008 did not contain TPHd or TPHmo at concentrations detectable above laboratory reporting limits (Table 4 and Figure 4). The analytical results from the shallow monitoring well confirm that TPH-affected shallow groundwater is laterally limited and that, when the fine sediment (and asphalt) content in a groundwater sample is minimized, TPH is not detected in the groundwater. The analytical results from the deep monitoring well and from the deep soil samples collected in several soil borings confirm that deeper (possibly regional) groundwater has not been affected by the TPH in shallow soils.

5.0 RESULTS FROM NEW GROUNDWATER MONITORING WELLS

Two groundwater monitoring wells were successfully installed at the Site, one that appears to monitor shallow groundwater (well MW-4(SS123)) and one that appears to monitor deeper groundwater (well MW-3(SS123); Figure 3). Given their close proximity to each other (less than approximately 30 feet), these two wells can be considered a well pair. Groundwater samples were collected from the two wells several days after the wells were developed; the wells were purged and initial samples were collected on June 5, 2008. Analytical results are summarized in Table 4; analytical results for TPHd- and TPHmo-range hydrocarbons are presented on Figure 4; and groundwater elevations are presented on Figure 5.

The depth to water measured in these two wells after well development is significantly different: approximately 40 feet bgs in the deep well and approximately 22 feet bgs in the shallow well. The approximately 18-foot difference in groundwater elevation in these two adjacent wells indicates that they are monitoring two different groundwater zones, likely a shallow perched groundwater zone and a deeper (possibly regional) groundwater zone. Analytical results for groundwater samples collected from the two wells indicated that TPHd- and TPHmo-range hydrocarbons, and BTEX compounds, were not detected above laboratory reporting limits, indicating that groundwater has not been significantly affected by petroleum hydrocarbons.

Because only two groundwater monitoring wells were successfully installed at the Site, the local groundwater flow direction in this area could not be determined. Based on groundwater monitoring well data from the AOC #1 area located approximately 3,500 feet west-southwest of the Site, the local groundwater flow direction of deeper groundwater beneath the Site may be to the west-northwest.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

Asphalt material likely placed in the former aggregate extraction pits during historical mining operations has resulted in longer chain TPH concentrations (e.g., TPHd- and TPHmo-range hydrocarbons) detected in depth-discrete soil and grab groundwater samples collected in the SS-123 area. Other compounds, including lighter hydrocarbons, such as TPH as gasoline (TPHg) and BTEX compounds, have been detected only sporadically at low concentrations and in isolated soil or groundwater samples. Only concentrations of hydrocarbon compounds detected above the 2007 commercial/industrial ESLs are considered significant.

The results of the May 2008 investigations confirm that soil affected by asphalt material and associated TPH constituents is limited in extent both vertically (to within approximately the upper 40 feet of soil) and laterally (to within approximately less than

125 feet of the original soil boring SS-123). Analytical results of groundwater samples collected at the Site indicate that groundwater quality has not significantly been affected. The lateral and vertical extent of affected soil has been sufficiently characterized; soil samples collected from step-out soil boring locations to the north, east, south, and west have shown TPHd and TPHmo concentrations well below the ESLs and in many cases not detected above laboratory reporting limits. Depth-discrete soil samples collected from a maximum depth of approximately 79 feet bgs from four soil borings advanced to approximately 71 or 81 feet bgs confirm that the vertical extent of affected soil is generally limited to shallower than approximately 40 feet bgs. Leachability test results show that TPHd- and TPHmo-range hydrocarbons detected in soil do not readily leach to groundwater.

Based on the analytical results of grab groundwater samples collected at the Site, shallow groundwater has been affected locally by TPHd- and TPHmo-range hydrocarbons; the lateral extent of affected shallow groundwater is limited to a similar extent as soil containing asphalt material. The only shallow grab groundwater sample location that does not have a step-out location in all directions confirming the lateral extent is boring MW-2(SS123); no step-out location exists to the east. However, analytical results of grab groundwater samples collected from soil borings located approximately north and south of boring MW-2(SS123), and grab groundwater samples collected elsewhere at the Site, indicate that the lateral extent of groundwater containing TPH associated with asphalt in soil is limited and localized.

Results from the two monitoring wells installed at the Site during May 2008 confirm that shallow and deeper groundwater have not been affected by TPH detected in the subsurface in the SS-123 area. The shallow and deep groundwater monitoring wells can be considered a well pair, and groundwater elevation data from these two wells confirm the presence of two distinct groundwater intervals, the shallow one apparently perched above deeper (possibly more regional) groundwater. The results of this investigation do not provide sufficient information to assess the local groundwater flow direction or gradient.

The results of the various subsurface investigations completed at the Site to date support the theory that a perched groundwater zone exists beneath the Site and that the deeper (possibly regional) groundwater is separate from the perched groundwater zone. Samples collected from the perched groundwater interval in a localized area contain elevated concentrations of TPHd- and TPHmo-range hydrocarbons associated with asphalt material observed in soil. The deeper groundwater does not appear to have been affected by the asphalt material.

In summary, TPH concentrations detected in soil and grab groundwater samples collected during the May 2008 and previous subsurface investigations are associated with asphalt material observed in soil cores during drilling. The TPHd- and TPHmo-range hydrocarbon concentrations detected in samples likely are a result of analytical methods used by the laboratory in which a solvent is used to extract the sample for analysis. TPH associated with asphalt material generally does not leach out under

natural conditions, as confirmed by the results of the leachability testing using DI water conducted on selected soil samples. Asphalt material is relatively immobile, does not leach readily to groundwater, has limited solubility, is limited to a localized area near the original soil boring SS-123, and does not appear to present an environmental risk to more regional groundwater.

6.2 Recommendations

Results from investigations conducted by LFR during May 2008, evaluated in conjunction with results from previous investigations, indicate that soil and groundwater quality beneath the Site have been sufficiently characterized. LFR does not recommend that any additional subsurface investigations be conducted at the Site.

LFR recommends that a periodic groundwater monitoring and reporting program be initiated for the two wells installed at the Site. The groundwater monitoring program should include measuring depth to groundwater and collecting groundwater samples for laboratory analyses of TPHd and TPHmo, on a quarterly basis for up to one year. If TPHd and TPHmo concentrations in groundwater samples from the two wells continue to be below the analytical reporting limits and/or below the ESLs after approximately four consecutive quarterly monitoring events, the two groundwater monitoring wells should be properly abandoned.

7.0 LIMITATIONS

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

Results of any investigations or testing and any findings presented in this report apply solely to conditions existing at the time when LFR's investigative work was performed. It must be recognized that any such investigative or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in

other parts of the Site may vary from those at the locations where data were collected. LFR's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in environmental investigation conclusions cannot reasonably be achieved.

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

8.0 REFERENCES

- Alameda County Environmental Health (ACEH). 1998. Letter from Scott Seery to Lawrence Appleton of Kaiser Sand & Gravel Company, re: Kaiser Sand & Gravel, 3000 Busch Road, Pleasanton. March 9.
- . 2007a. Letter from Jerry Wickham to Lee Cover of Hanson Aggregates, re: SLIC Case RO0002941 and Geotracker Global ID SLT19719376, Hanson Aggregates Radum Plant, 3000 Busch Road, Pleasanton, CA 94566. March 16.
- . 2007b. Letter from Donna Drogos to Lee Cover of Hanson Aggregates, re: Fuel Leak Case No. RO0002858 and Geotracker Global ID T06019765846, Hanson Aggregates, 3000 Busch Road, Pleasanton, CA 94566. June 12.
- . 2007c. Letter from Jerry Wickham to Lee Cover of Hanson Aggregates West Region, re: SLIC Case RO0002941 and Geotracker Global ID STL19719376, Hanson Aggregates Radum Plant, 3000 Busch Road, Pleasanton, CA 94566. June 22.
- . 2007d. Letter from Jerry Wickham to Lee Cover of Hanson Aggregates West Region, re: SLIC Case RO0002941 and Geotracker Global ID STL19719376, Hanson Aggregates Radum Plant, 3000 Busch Road, Pleasanton, CA 94566. July 24.
- . 2007e. Letter from Jerry Wickham to Lee Cover of Hanson Aggregates West Region, re: SLIC Case RO0002952 and Geotracker Global ID STL0600101555, Hanson Aggregates Radum Plant, 3000 Busch Road, Pleasanton, CA 94566. November 28.
- . 2008a. Letter from Jerry Wickham to Lee Cover of Hanson Aggregates West Region, re: SLIC Case RO0002941 and Geotracker Global ID STL19719376, Hanson Aggregates Radum Plant, 3000 Busch Road, Pleasanton, CA 94566. January 11.
- . 2008b. Letter from Jerry Wickham to Lee Cover of Hanson Aggregates West Region, re: SLIC Case RO0002952 and Geotracker Global ID STL0600101555, Hanson Aggregates Radum Plant, 3000 Busch Road, Pleasanton, CA 94566. February 26.
- . 2008c. Letter from Jerry Wickham to Lee Cover of Hanson Aggregates West Region, re: SLIC Case RO0002941 and Geotracker Global ID STL19719376, Hanson Aggregates Radum Plant, 3000 Busch Road, Pleasanton, CA 94566. March 31.

- Baseline Environmental Consulting (Baseline). 1991a. Report on Tank Removal Activities and Work Plan for Additional Investigation, 3000 Busch Road, Pleasanton, California. January.
- . 1991b. Report on Preliminary Soil and Groundwater Investigation, 3000 Busch Road, Pleasanton, California. May.
- . 1995. Report on Tank Removal Activities, 3000 Busch Road, Pleasanton, California. April.
- Brown & Caldwell (B&C). 2006a. Final Phase I Environmental Site Assessment, Hanson Aggregates West / Radum Plant, 3000 Busch Road, Pleasanton, California. June.
- . 2006b. Letter from Lisa Ehlers and Andrew Lojo to Marvin Howell of Hanson America, re: Summary of the Limited Subsurface Investigation Activities at the Hanson Aggregates West Radum Facility in Pleasanton, California. August 2.
- . 2007. Letter from Andrew Lojo and Jason Grant to Jerry Wickham of ACEH, re: Results of Soil and Groundwater Investigation, ACEH Fuel Leak Case No. RO0002858, Hanson Aggregates, 3000 Busch Road, Pleasanton, California. February 15.
- ENV America Inc. (ENV). 2006a. Draft Phase I Environmental Site Assessment, Hanson Radum Site, Pleasanton, California. October.
- . 2006b. Draft Phase II Environmental Site Assessment, 3000 Busch Road, Pleasanton, California. November.
- . 2007a. Additional Soil and Groundwater Investigation Report, 3000 Busch Road, Pleasanton, California. February.
- . 2007b. Second Additional Soil and Groundwater Investigation Report, Hanson Radum Site, 3000 Busch Road, Pleasanton, California. April.
- . 2007c. Revised Final Third Additional Soil and Groundwater Investigation Report, Hanson Radum Site, 3000 Busch Road, Pleasanton, California. June.
- Kiewit Construction Company. 2004. Letter from Mike Schrad to Betty Graham of the RWQCB, re: 01S0566 - Self Directed Cleanup, 3300 Busch Road, Pleasanton, California 94566. February 3.
- Lawrence Berkeley National Laboratory (LBNL). 2002. Analysis of Background Distributions of Metals in the Soil at Lawrence Berkeley National Laboratory (LBNL). June.

-
- LFR Inc. (LFR). 2006. Summary Report of Additional Phase II ESA Investigation at the Former Asphalt Plant Area, Hanson Radum Facility, 3000 Busch Road, Pleasanton, Alameda County, California. December 5.
- . 2007a. Work Plan for Additional Site Characterization at the Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California. May 16.
- . 2007b. Submittal of Supporting Information to Request a Separate Case Number for a Portion of the Hanson Radum Property at 3000 Busch Road, Pleasanton, California. July 6.
- . 2007c. Site Investigation Report for the Eastern Portion of AOC #2 and AOCs #3 through #9, ACEH Case # RO0002952 and Geotracker Global ID #SL0600101555, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California. October 26.
- . 2007d. Additional Site Investigation Report for the Former Hot Mix Asphalt Plant Area (AOC #1), ACEH Case # RO0002941 and Geotracker Global ID #SLT19719376, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California. December 21.
- . 2008a. Work Plan for Additional Site Characterization at AOC #8, Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, SLIC Case RO0002952 and Geotracker ID SL0600101555. February 6.
- . 2008b. Work Plan for Additional Well Installations and Quarterly Groundwater Monitoring and Reporting in the Former Hot Mix Asphalt Plant Area (AOC #1) of the Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, SLIC Case #RO0002941 and GeoTracker ID SLT19719376. February 28.
- . 2008c. Work Plan for the Excavation of Petroleum Hydrocarbon-Affected Soil at the Former Hot Mix Asphalt Plant Area (AOC #1) of the Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, SLIC Case #RO0002941 and GeoTracker ID SLT19719376. March 21.
- Regional Water Quality Control Board, San Francisco Bay Region (RWQCB). 2004. Letter from Bruce Wolfe to Mike Schrad or Kiewit Construction Company and Bill Berger of Hanson Aggregates Mid Pacific Inc., re: No Further Action, 3300 Busch Road, Pleasanton, Alameda County. March 31.
- . 2005. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater (Interim Final); Environmental Screening Levels (“ESLs”). Technical Document. February.

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

- 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
Sample Matrix for Samples Collected During the May 2008 Subsurface Investigation
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

| Sample ID | Date Sampled | Approximate Sample Interval | | Sample Type | TPHd/mo w/silica gel cleanup | DI-WET TPHd/mo w/silica gel cleanup | BTEX (ggw only) |
|--|--------------|-----------------------------|-------------------|-------------------------|------------------------------|-------------------------------------|-----------------|
| | | top (feet bgs) | bottom (feet bgs) | | | | |
| Temporary Soil Borings | | | | | | | |
| <i>Depth Discrete Soil Samples from Temporary Soil Borings</i> | | | | | | | |
| SS123(F4) | 5/22/2008 | 5 | 5.5 | soil | x | - | - |
| SS123(F4) | 5/22/2008 | 12.5 | 13 | soil | x | - | - |
| SS123(F4) | 5/22/2008 | 17.5 | 18 | soil | x | x | - |
| SS123(F5) | 5/19/2008 | 4.5 | 5 | soil | x | - | - |
| SS123(F5) | 5/19/2008 | 9.5 | 10 | soil | x | x | - |
| SS123(F5) | 5/19/2008 | 14.5 | 15 | soil | x | - | - |
| SS123(F5) | 5/19/2008 | 17.5 | 18 | soil | x | hold | - |
| SS123(F5) | 5/19/2008 | 20.5 | 21 | soil | x | - | - |
| SS123(F5) | 5/19/2008 | 49.5 | 50 | soil | x | - | - |
| SS123(F5) | 5/19/2008 | 65.5 | 66 | soil | x | - | - |
| SS123(F6) | 5/22/2008 | 5.5 | 6 | soil | x | - | - |
| SS123(F6) | 5/22/2008 | 11.5 | 12 | soil | x | - | - |
| SS123(F6) | 5/22/2008 | 16.5 | 17 | soil | x | - | - |
| SS123(F6) | 5/22/2008 | 22.5 | 23 | soil | x | - | - |
| SS123(F6) | 5/22/2008 | 26.5 | 27 | soil | x | - | - |
| MW-1(SS123) | 5/21/2008 | 4.5 | 5 | soil | x | - | - |
| MW-1(SS123) | 5/21/2008 | 12.5 | 13 | soil | x | x | - |
| MW-1(SS123) | 5/22/2008 | 49.5 | 50 | soil | x | x | - |
| MW-1(SS123) | 5/22/2008 | 62.5 | 63 | soil | x | x | - |
| MW-1(SS123) | 5/22/2008 | 78.5 | 79 | soil | x | - | - |
| MW-2(SS123) | 5/20/2008 | 4.5 | 5 | soil | x | - | - |
| MW-2(SS123) | 5/20/2008 | 9.5 | 10 | soil | x | - | - |
| MW-2(SS123) | 5/20/2008 | 13.5 | 14 | soil | x | x | - |
| MW-2(SS123) | 5/20/2008 | 19.5 | 20 | soil | x | - | - |
| MW-2(SS123) | 5/20/2008 | 64.5 | 65 | soil | x | - | - |
| MW-2(SS123) | 5/20/2008 | 73.5 | 74 | soil | x | - | - |
| MW-2(SS123)-GGW | 5/21/2008 | 74.5 | 75 | water/soil ¹ | x | - | - |
| MW-2(SS123) | 5/20/2008 | 77.5 | 78 | soil | x | - | - |
| MW-3(SS123) | 5/22/2008 | 4.5 | 5 | soil | x | - | - |
| MW-3(SS123) | 5/22/2008 | 9.5 | 10 | soil | x | - | - |
| MW-3(SS123) | 5/22/2008 | 14.5 | 15 | soil | x | - | - |
| MW-3(SS123) | 5/22/2008 | 19.5 | 20 | soil | x | - | - |
| MW-3(SS123) | 5/22/2008 | 24.5 | 25 | soil | hold | - | - |
| MW-3(SS123) | 5/22/2008 | 29.5 | 30 | soil | hold | - | - |
| MW-3(SS123) | 5/22/2008 | 34.5 | 35 | soil | hold | - | - |
| MW-3(SS123) | 5/22/2008 | 41.5 | 42 | soil | hold | - | - |
| MW-3(SS123) | 5/22/2008 | 46.5 | 47 | soil | hold | - | - |
| MW-3(SS123) | 5/22/2008 | 54.5 | 55 | soil | hold | - | - |
| MW-4(SS123) | 5/22/2008 | 4.5 | 5 | soil | x | - | - |
| MW-4(SS123) | 5/22/2008 | 6.5 | 7 | soil | x | - | - |
| MW-4(SS123) | 5/22/2008 | 11.5 | 12 | soil | x | - | - |
| MW-4(SS123) | 5/22/2008 | 17.5 | 18 | soil | x | - | - |

Table 1
Sample Matrix for Samples Collected During the May 2008 Subsurface Investigation
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

| Sample ID | Date Sampled | Approximate Sample Interval | | Sample Type | TPHd/mo w/silica gel cleanup | DI-WET TPHd/mo w/silica gel cleanup | BTEX (ggw only) |
|---|--------------|-----------------------------|-------------------|-------------|------------------------------|-------------------------------------|-----------------|
| | | top (feet bgs) | bottom (feet bgs) | | | | |
| Temporary Soil Borings | | | | | | | |
| <i>Grab Groundwater Samples from Temporary Soil Borings</i> | | | | | | | |
| SS123(F4)-GGW | 5/22/2008 | 22.5 | 23 | water | x | - | x |
| SS123(F5)-GGW | 5/19/2008 | 24.5 | 25 | water | x | - | x |
| SS123(F6)-GGW | 5/23/2008 | 23.5 | 24 | water | x | - | x |
| MW-1(SS123)-GGW | 5/21/2008 | 17.5 | 18 | water | x | - | x |
| MW-2(SS123)-GGW | 5/20/2008 | 22.5 | 23 | water | x | - | x |
| MW-2(SS123)-GGW | 5/21/2008 | 74.5 | 75 | water | x | - | hold |
| MW-4(SS123)-GGW | 5/23/2008 | 23.5 | 24 | water | x | - | x |
| Groundwater Monitoring Well Samples | | | | | | | |
| MW-3(SS123) | 6/5/2008 | 60 | 70 | water | x | - | x |
| MW-4(SS123) | 6/5/2008 | 18 | 28 | water | x | - | x |
| Quality Assurance and Quality Control Samples ² | | | | | | | |
| Equipment Blank | 5/21/2008 | -- | -- | water | hold | - | hold |

Notes:

feet bgs = feet below ground surface

"x" = analyzed

"-" = not analyzed

hold = sample was placed on hold at the laboratory and was not analyzed

ggw = grab groundwater sample

x box indicates that at least one compound was detected at a concentration above the ESL.

¹ Sample MW-2(SS123)-GGW-75.0 was collected as a water sample, although only half of a 1-liter amber sample container could be filled due to insufficient water in the borehole. At the time of analysis, the laboratory found that the sample collected contained significant amounts of fine-grained sediment and that only approximately 10 milliliters of liquid could be extracted from the sample. As a result, the laboratory analyzed the sample as a soil sample.

² An equipment blank sample was collected from the stainless steel bailer used to collect the ggw sample from boring MW-2(SS123).

TPHd = total petroleum hydrocarbons as diesel by EPA Method 8015 (after silica gel cleanup)

TPHmo = total petroleum hydrocarbons as motor oil by EPA Method 8015 (after silica gel cleanup)

BTEX = benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260

DI WET = waste extraction test using deionized water; the resulting extracts underwent silica gel cleanup and were analyzed for TPHd and TPHmo as water samples.

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Shallow or Deep Soils, or Groundwater, beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

Table 2
Borehole and Groundwater Monitoring Well Construction Details
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

| Monitoring Well ID | Drill and/or Installation Date | Drilling Technology | Borehole Diameter (inches) | Approximate Borehole Depth (feet bgs) | Approximate Depth to First Encountered Groundwater (feet bgs) | Ground Surface Elevation ¹ (feet msl) | Top of Casing Elevation ¹ (feet msl) | Casing Diameter (inches) | Approximate Total Well Depth (feet bgs) | Approximate Screened Interval (feet bgs) | Depth to Groundwater Measured on 6/5/08 (feet TOC) | Groundwater Elevation Measured on 6/5/08 (feet msl) |
|--------------------|--------------------------------|---------------------|-------------------------------|--|--|---|--|-----------------------------|--|---|---|--|
| SS-123(F4) | 5/22/08 | HSA. | 6.0 | 27 | 26 | 371.27 | - | - | - | - | - | - |
| SS-123(F5) | 5/19/08 | sonic | 8.0 | 71 | 15 | 372.44 | - | - | - | - | - | - |
| SS-123(F6) | 5/22/08 | HSA. | 6.0 | 30 | 26 | 373.55 | - | - | - | - | - | - |
| MW-1(SS123) | 5/21-22/08 | sonic | 8.0 | 81 | 14.5 | 372.28 | - | - | - | - | - | - |
| MW-2(SS123) | 5/20/08 | sonic | 8.0 | 81 | 21 | 369.65 | - | - | - | - | - | - |
| MW-3(SS123) | 5/22/08 | sonic | 8.0 | 71 | 17 | 371.36 | 373.71 | 2.0 | 70 | 60 - 70 | 40.18 | 333.53 |
| MW-4(SS123) | 5/23/08 | HSA. | 6.0 | 30 | 16 | 371.16 | 373.30 | 2.0 | 28 | 18 - 28 | 21.95 | 351.35 |

Notes:

ID = identification; monitoring well identification number

feet bgs = feet below ground surface

feet msl = feet relative to mean sea level

feet TOC = feet below top of casing

HSA = hollow stem auger

"-" = not applicable

¹ Top of casing elevation and land survey conducted by Kim & Wright Civil Engineers & Surveyors, Inc.

Table 3
Petroleum Hydrocarbons Detected in Soil Samples
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

| Sample Location | Sample ID | Date Sampled | Sample Interval | | Matrix | Total Petroleum Hydrocarbons | | | |
|--|-----------------|--------------|------------------------------|----------------------|-------------------------|------------------------------|------------------|--------------------------|---------------------------|
| | | | top (feet bgs) | bottom (feet bgs) | | TPHd (mg/kg) | TPHmo (mg/kg) | TPHd DI WET (ug/L) | TPHmo DI WET (ug/L) |
| Temporary Soil Borings | | | | | | | | | |
| <i>Depth Discrete Soil Samples from Temporary Soil Borings</i> | | | | | | | | | |
| | SS123(F4) | 5/22/2008 | 5 | 5.5 | soil | 17 Y | 140 | - | - |
| | SS123(F4) | 5/22/2008 | 12.5 | 13 | soil | 21 Y | 78 | - | - |
| | SS123(F4) | 5/22/2008 | 17.5 | 18 | soil | 17 Y | 76 | < 100 | < 300 |
| | SS123(F5) | 5/19/2008 | 4.5 | 5 | soil | 3.7 Y | 43 | - | - |
| | SS123(F5) | 5/19/2008 | 9.5 | 10 | soil | 62 Y | 640 | < 100 | < 300 |
| | SS123(F5) | 5/19/2008 | 14.5 | 15 | soil | 17 Y | 250 | - | - |
| | SS123(F5) | 5/19/2008 | 17.5 | 18 | soil | 76 Y b | 1,900 b | - | - |
| | SS123(F5) | 5/19/2008 | 20.5 | 21 | soil | 3.4 Y | 16 | - | - |
| | SS123(F5) | 5/19/2008 | 49.5 | 50 | soil | 3.7 Y b | 23 b | - | - |
| | SS123(F5) | 5/19/2008 | 65.5 | 66 | soil | < 0.99 | < 5 | - | - |
| | SS123(F6) | 5/22/2008 | 5.5 | 6 | soil | 3.1 Y | 17 | - | - |
| | SS123(F6) | 5/22/2008 | 11.5 | 12 | soil | < 1 | < 5 | - | - |
| | SS123(F6) | 5/22/2008 | 16.5 | 17 | soil | < 1 | < 5 | - | - |
| | SS123(F6) | 5/22/2008 | 22.5 | 23 | soil | < 0.99 | < 5 | - | - |
| | SS123(F6) | 5/22/2008 | 26.5 | 27 | soil | < 1 | < 5 | - | - |
| | MW-1(SS123) | 5/21/2008 | 4.5 | 5 | soil | 7.8 Y | 53 | - | - |
| | MW-1(SS123) | 5/21/2008 | 12.5 | 13 | soil | - ¹ | - ¹ | < 100 | < 300 |
| | MW-1(SS123) | 5/22/2008 | 49.5 | 50 | soil | 220 Y | 2,300 | < 50 | < 300 |
| | MW-1(SS123) | 5/22/2008 | 62.5 | 63 | soil | 10 Y b | 88 b | < 50 | < 300 |
| | MW-1(SS123) | 5/22/2008 | 78.5 | 79 | soil | 2.8 Y b | 16 b | - | - |
| | MW-2(SS123) | 5/20/2008 | 4.5 | 5 | soil | 21 Y | 420 | - | - |
| | MW-2(SS123) | 5/20/2008 | 9.5 | 10 | soil | 23 Y | 260 | - | - |
| | MW-2(SS123) | 5/20/2008 | 13.5 | 14 | soil | 13 Y | 190 | < 100 | < 300 |
| | MW-2(SS123) | 5/20/2008 | 19.5 | 20 | soil | 27 Y | 120 | - | - |
| | MW-2(SS123) | 5/20/2008 | 64.5 | 65 | soil | 1.2 Y b | 6 b | - | - |
| | MW-2(SS123) | 5/20/2008 | 73.5 | 74 | soil | < 1 | < 5 | - | - |
| | MW-2(SS123)-GGW | 5/21/2008 | 74.5 | 75 | water/soil ² | 2.8 Y b | 12 b | - | - |
| | MW-2(SS123) | 5/20/2008 | 77.5 | 78 | soil | < 1 b | < 5 b | - | - |
| | MW-3(SS123) | 5/22/2008 | 4.5 | 5 | soil | < 0.99 | < 5 | - | - |
| | MW-3(SS123) | 5/22/2008 | 9.5 | 10 | soil | < 0.99 | < 5 | - | - |
| | MW-3(SS123) | 5/22/2008 | 14.5 | 15 | soil | < 0.99 | < 5 | - | - |
| | MW-3(SS123) | 5/22/2008 | 19.5 | 20 | soil | < 1 | < 5 | - | - |
| | MW-3(SS123) | 5/22/2008 | 24.5 | 25 | soil | - | - | - | - |
| | MW-3(SS123) | 5/22/2008 | 29.5 | 30 | soil | - | - | - | - |
| | MW-3(SS123) | 5/22/2008 | 34.5 | 35 | soil | - | - | - | - |
| | MW-3(SS123) | 5/22/2008 | 41.5 | 42 | soil | - | - | - | - |
| | MW-3(SS123) | 5/22/2008 | 46.5 | 47 | soil | - | - | - | - |
| | MW-3(SS123) | 5/22/2008 | 54.5 | 55 | soil | - | - | - | - |
| | MW-4(SS123) | 5/22/2008 | 4.5 | 5 | soil | 5.6 Y | 51 | - | - |
| | MW-4(SS123) | 5/22/2008 | 6.5 | 7 | soil | < 1 | < 5 | - | - |
| | MW-4(SS123) | 5/22/2008 | 11.5 | 12 | soil | < 0.99 | < 5 | - | - |
| | MW-4(SS123) | 5/22/2008 | 17.5 | 18 | soil | < 1 | < 5 | - | - |
| ESLs | | | shallow soils or groundwater | | | 83 | 2,500 | 100 | 100 |
| | | | deep soils or groundwater | | | 83 | 5,000 | 100 | 100 |

Table 3
Petroleum Hydrocarbons Detected in Soil Samples
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

| Sample Location | Sample ID | Date Sampled | Sample Interval | | Matrix | Total Petroleum Hydrocarbons | | | |
|-----------------|-----------|--------------|-------------------|----------------------|--------|------------------------------|------------------|--------------------------|---------------------------|
| | | | top (feet bgs) | bottom (feet bgs) | | TPHd (mg/kg) | TPHmo (mg/kg) | TPHd DI WET (ug/L) | TPHmo DI WET (ug/L) |

Notes:

feet bgs = feet below ground surface

mg/kg = milligrams per kilogram

ug/L = micrograms per liter

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.

220 Y boxed values exceed the respective ESL.

"<" = not detected above the laboratory reporting limit

"-" = sample not analyzed or no ESL exists

Y = sample exhibits chromatographic pattern that does not resemble standard

b = analyzed out of EPA recommended hold time (14 days); analytical results may be biased low.

¹ Due to a miscommunication on the chain of custody, the laboratory did not analyze the 13-foot soil sample collected from soil boring MW1(SS123). When the error was identified, the sample was significantly past hold time; therefore, the soil sample was not analyzed for TPHd and TPHmo as originally intended. However, a soil leachate sample was produced and analyzed as requested.

² Sample MW-2(SS123)-GGW-75.0 was collected as a water sample, although only half of a 1-liter amber sample container could be filled due to insufficient water in the borehole. At the time of analysis, the laboratory found that the sample collected contained significant amounts of fine-grained sediment and that only approximately 10 milliliters of liquid could be extracted from the sample. As a result, the laboratory analyzed the sample as a soil sample.

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Shallow or Deep Soils, or Groundwater, beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

DI WET = waste extraction test using deionized water; the resulting extracts underwent silica gel cleanup and were analyzed

Table 4
Petroleum Hydrocarbons and Associated Compounds Detected in Groundwater Samples
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

| Sample ID | Date Sampled | Approximate Sample Depth (feet bgs) | Matrix | Total Petroleum Hydrocarbons | | BTEX compounds | | | | |
|---|-------------------------------------|-------------------------------------|-----------------------------------|------------------------------|--------------|----------------|----------|----------|--------------|------------|
| | | | | TPHd (ug/L) | TPHmo (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | m,p-X (ug/L) | o-X (ug/L) |
| Temporary Soil Borings | | | | | | | | | | |
| <i>Grab Groundwater Samples from Temporary Soil Borings</i> | | | | | | | | | | |
| SS123(F4)-GGW | 5/22/2008 | 23 | water | 54 Y | < 300 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| SS123(F5)-GGW | 5/19/2008 | 25 | water | 85 Y | < 300 | < 0.5 | 0.55 | < 0.5 | < 0.5 | < 0.5 |
| SS123(F6)-GGW | 5/23/2008 | 24 | water | < 50 | < 300 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| MW-1(SS123)-GGW | 5/21/2008 | 18 | water | 410 Y | 5,300 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| MW-2(SS123)-GGW | 5/20/2008 | 23 | water | 500 Y | 380 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| MW-2(SS123)-GGW | 5/21/2008 | 75 | water/soil ¹ | - | - | - | - | - | - | - |
| MW-4(SS123)-GGW | 5/23/2008 | 24 | water | < 50 | < 300 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Approximate Well | | | | | | | | | | |
| Groundwater Monitoring Well Samples | | | Screen Interval (feet bgs) | | | | | | | |
| MW-3(SS123) | 6/5/2008 | 60 - 70 | water | < 50 | < 300 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| MW-4(SS123) | 6/5/2008 | 18 - 28 | water | < 50 | < 300 | < 0.5 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Quality Assurance and Quality Control Sample² | | | | | | | | | | |
| Equipment Blank | 5/21/2008 | -- | water | - | - | - | - | - | - | - |
| ESLs | groundwater (shallow or deep soils) | | | 100 | 100 | 1 | 40 | 30 | 20 | 20 |

Table 4
Petroleum Hydrocarbons and Associated Compounds Detected in Groundwater Samples
Area of Concern #8/SS-123 Area (Legacy Partners Property)
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

| Sample ID | Date Sampled | Approximate Sample Depth (feet bgs) | Matrix | Total Petroleum Hydrocarbons | | BTEX compounds | | | | |
|-----------|--------------|-------------------------------------|--------|------------------------------|--------------|----------------|----------|----------|--------------|------------|
| | | | | TPHd (ug/L) | TPHmo (ug/L) | B (ug/L) | T (ug/L) | E (ug/L) | m,p-X (ug/L) | o-X (ug/L) |

Notes:

feet bgs = feet below ground surface

ug/L = micrograms per liter

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

BTEX = benzene, toluene, ethylbenzene, and total xylenes

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

410 Y boxed values exceed the respective ESL.

"<" = not detected above the laboratory report given

"-" = sample not analyzed or no ESL exists

Y = sample exhibits chromatographic pattern that does not resemble standard

B = benzene

T = toluene

E = ethylbenzene

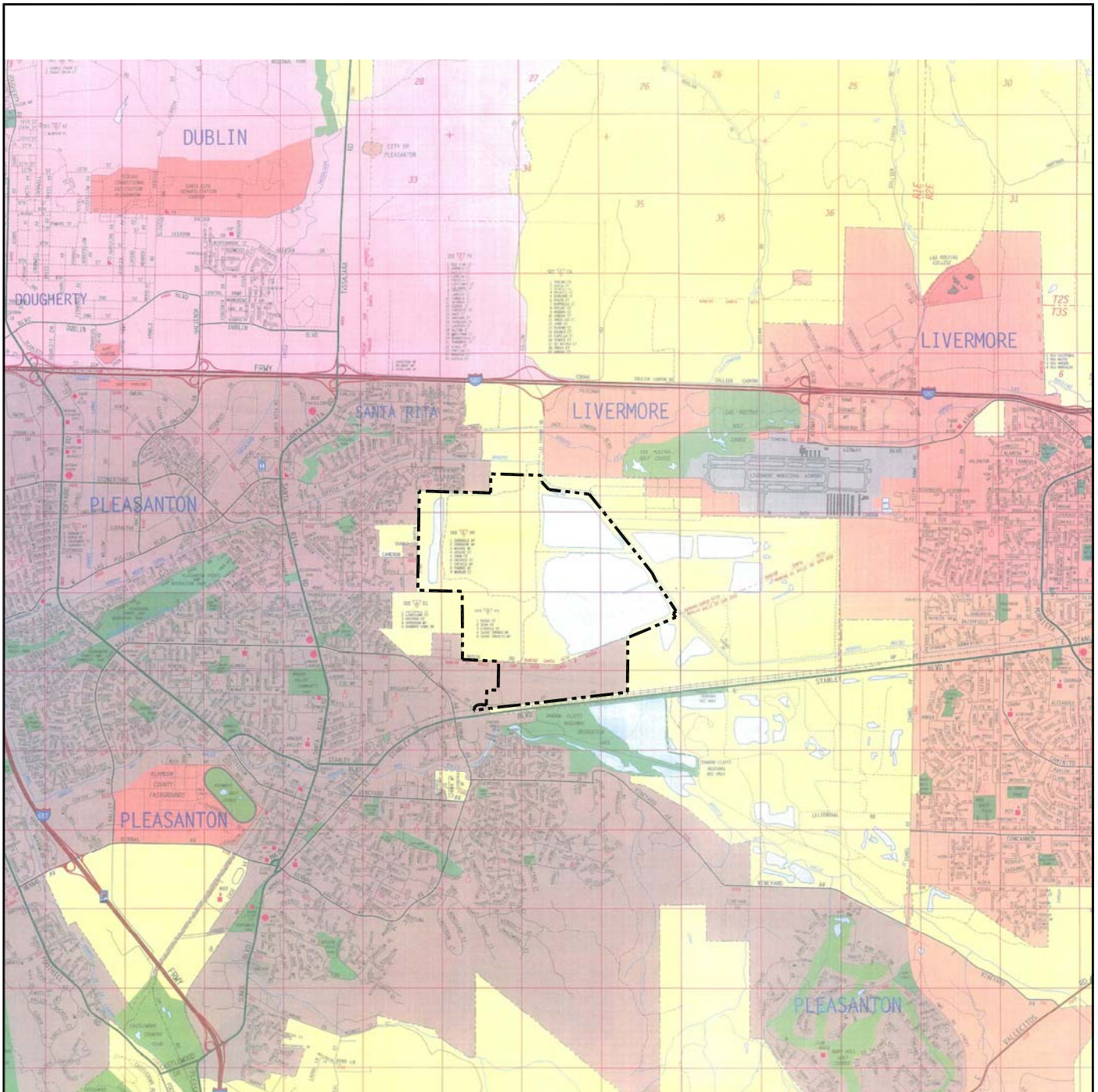
m,p-X = m,p-xylenes

o-X = o-xylenes

¹ Sample MW-2(SS123)-GGW-75.0 was collected as a water sample, although only half of a 1-liter amber sample container could be filled due to insufficient water in the borehole. At the time of analysis, the laboratory found that the sample collected contained significant amounts of fine-grained sediment and that only approximately 10 milliliters of liquid could be extracted from the sample. As a result, the laboratory analyzed the sample as a soil sample.

² An equipment blank sample was collected from the stainless steel bailer used to collect a grab groundwater sample from approximately 75 feet bgs in soil boring MW2(SS123). This sample was placed on hold at the laboratory and was not analyzed.

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Groundwater beneath Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.



Source: Thomas Guide

EXPLANATION

----- Approximate Site Boundary



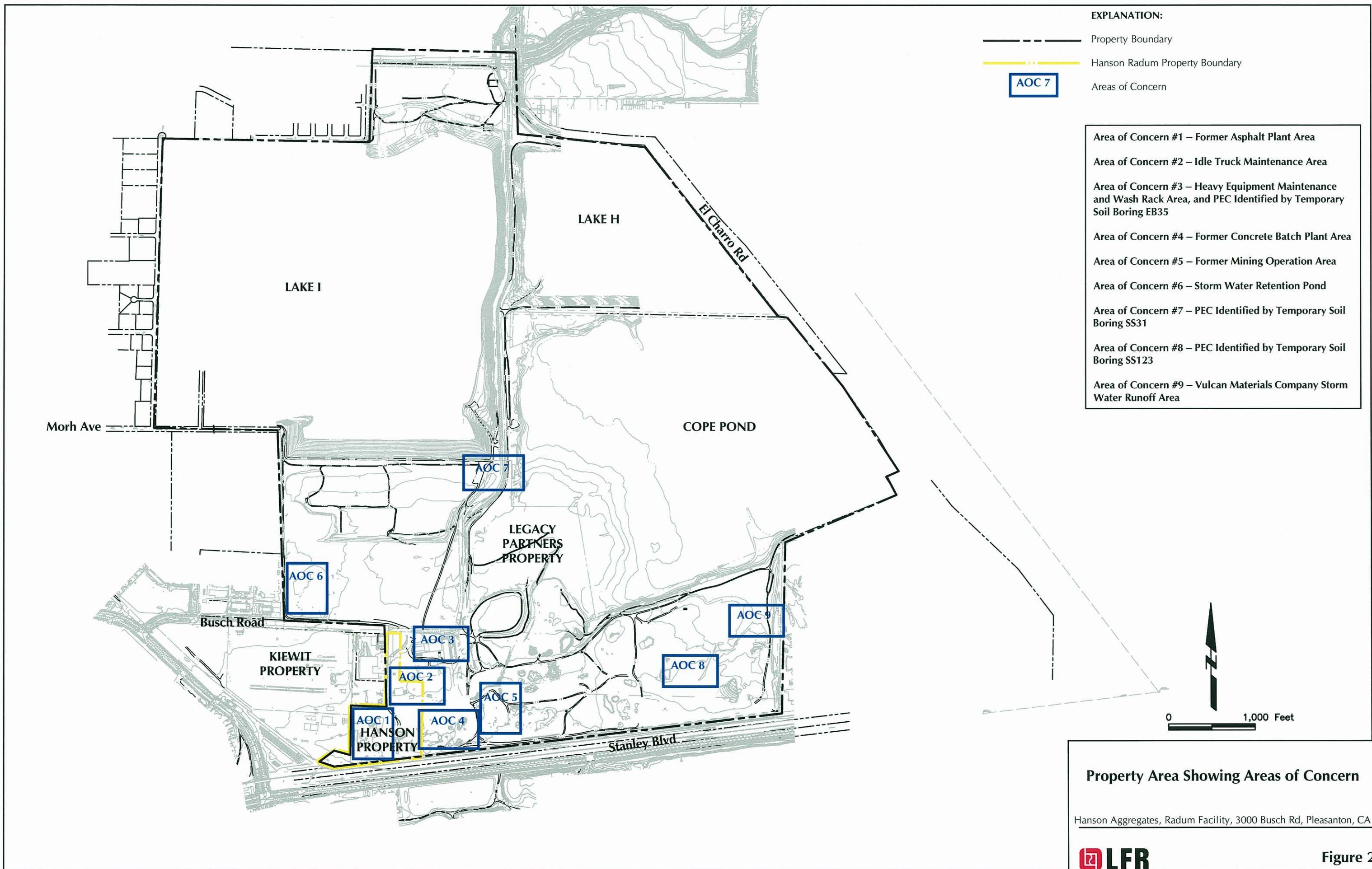
0 5000 FEET
APPROXIMATE SCALE

Site Location Map

Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA



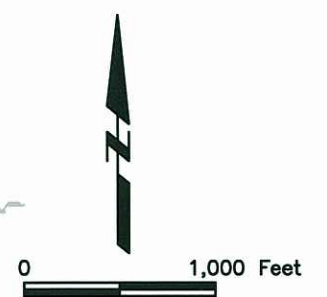
Figure 1



EXPLANATION:

-  Property Boundary
-  Hanson Radum Property Boundary
-  Areas of Concern

- Area of Concern #1 – Former Asphalt Plant Area
- Area of Concern #2 – Idle Truck Maintenance Area
- Area of Concern #3 – Heavy Equipment Maintenance and Wash Rack Area, and PEC Identified by Temporary Soil Boring EB35
- Area of Concern #4 – Former Concrete Batch Plant Area
- Area of Concern #5 – Former Mining Operation Area
- Area of Concern #6 – Storm Water Retention Pond
- Area of Concern #7 – PEC Identified by Temporary Soil Boring SS31
- Area of Concern #8 – PEC Identified by Temporary Soil Boring SS123
- Area of Concern #9 – Vulcan Materials Company Storm Water Runoff Area

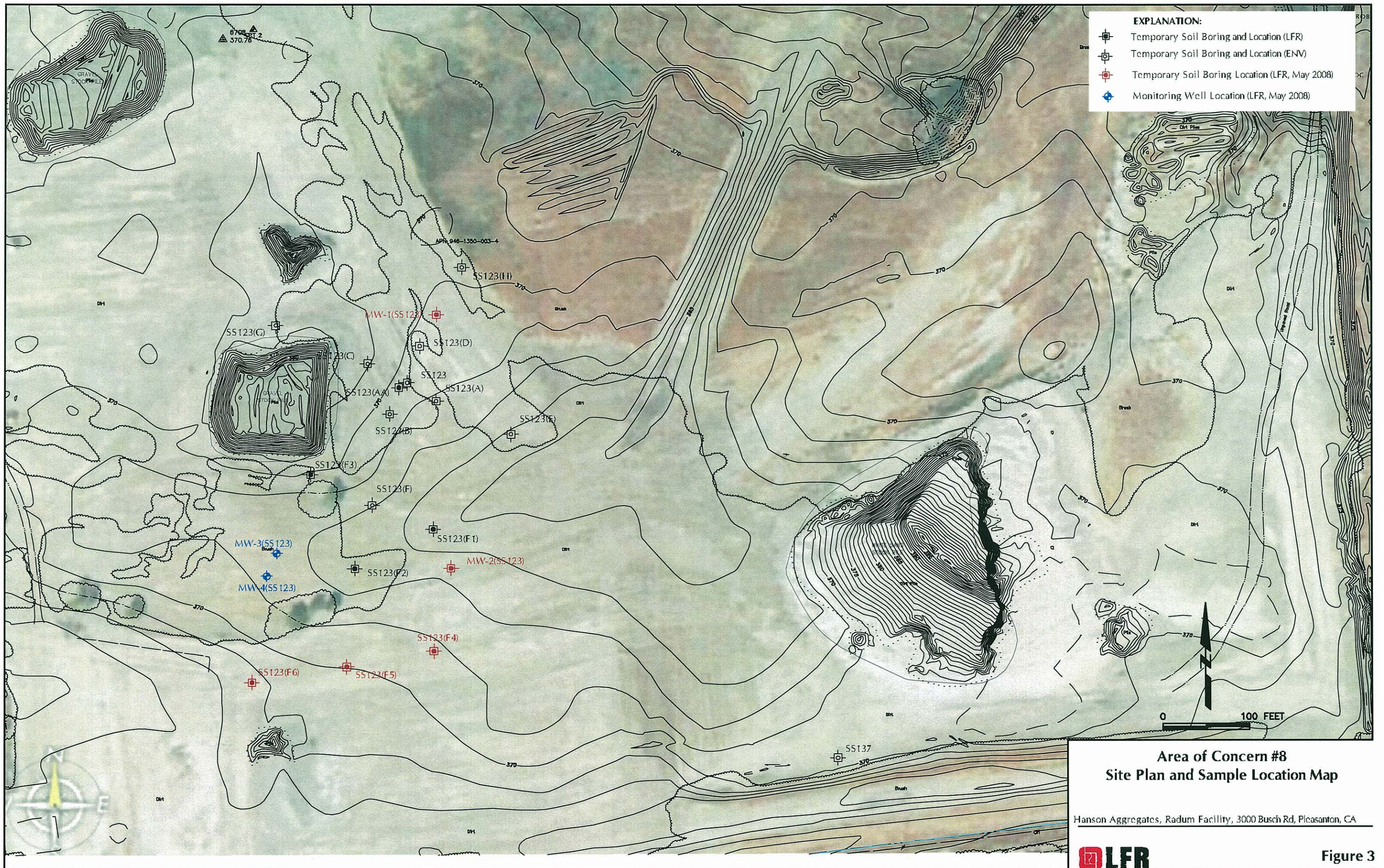


Property Area Showing Areas of Concern

Hanson Aggregates, Radum Facility, 3000 Busch Rd, Pleasanton, CA



Figure 2



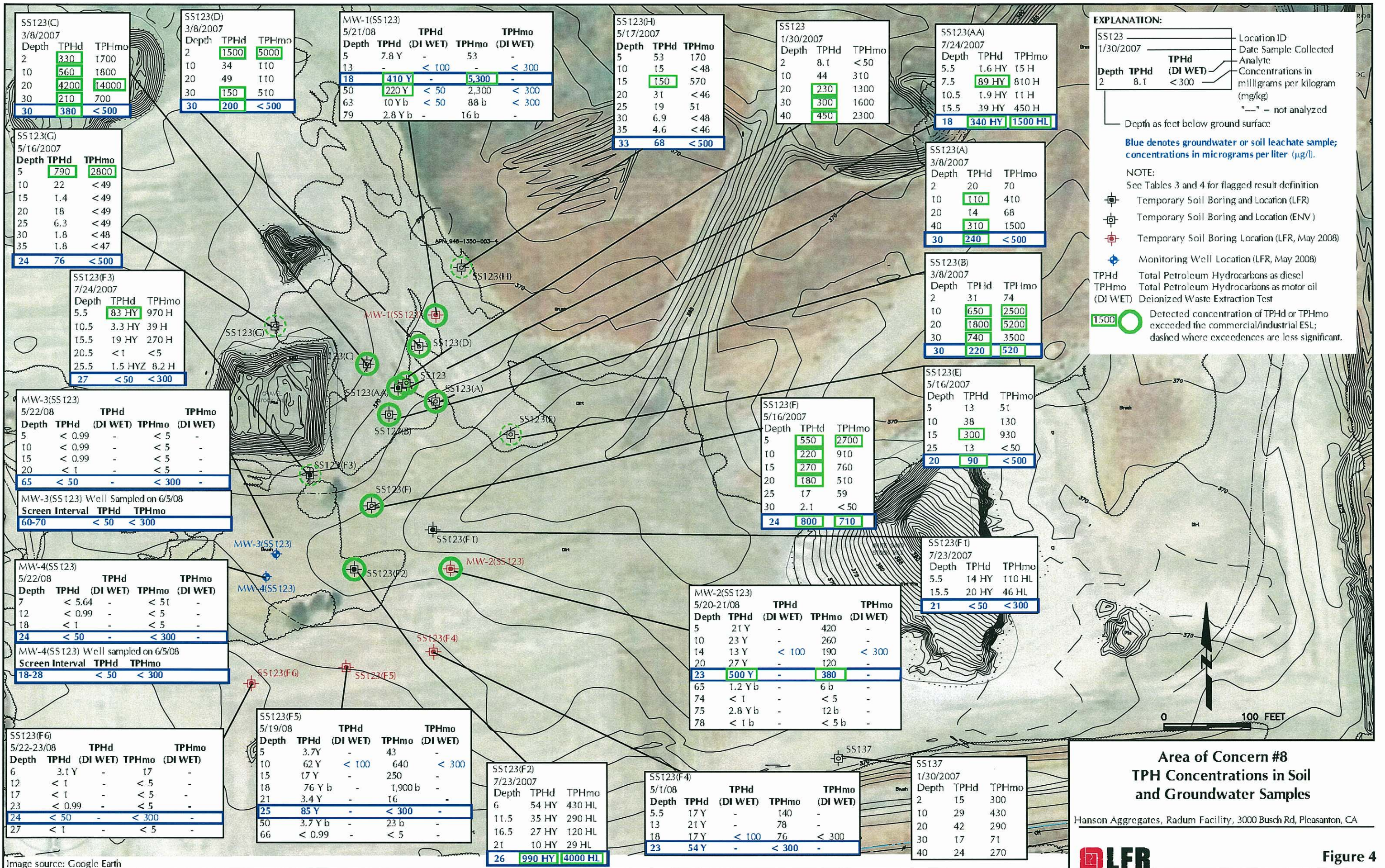
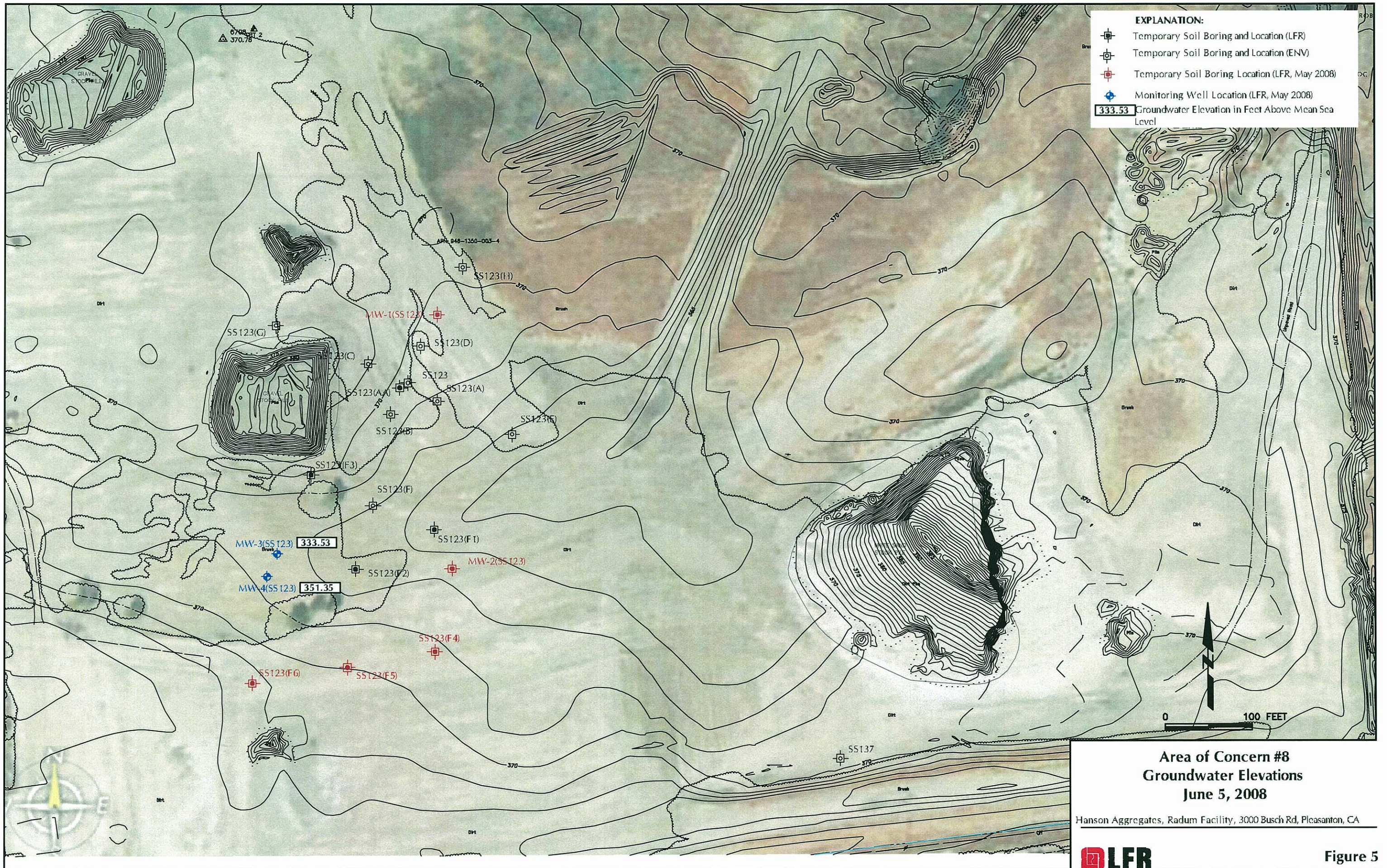


Image source: Google Earth



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 HANSON RADWAL Facility
AREA OF CONCERN #8 - SS 123 AREA
3000 BUSCH ROAD, PLEASANTON, CA

PERMIT NUMBER 28061
WELL NUMBER 3S/1E-14E1 to 14E4, 3S/1E-15M5,
APN 15E6 & 15E7

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ # CCE _____ ft.
APN _____

PERMIT CONDITIONS
(Circled Permit Requirements Apply)

CLIENT
Name HANSON AGGREGATES
Address 3000 BUSCH ROAD Phone (925) 425-4170
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 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 or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
Name LEB, INC
Email lany.lapuyade@leb.com Fax (510) 652-4906
Address 1500 POWELL ST, 12TH FL Phone (925) 976-7638
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 _____

- (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 Sonic

DRILLING COMPANY BOSS LONGYEAR & Sney
Drilling & TESTING
DRILLER'S LICENSE NO. 694686 & 485165

- 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 8 in. Maximum
Casing Diameter 2 in. Depth 30(2) ft.
Surface Seal Depth 15/60 ft. Number 1/86

SOIL BORINGS:
Number of Borings 3 Maximum
Hole Diameter 8 in. Depth 30(2) ft.
75(1)

ESTIMATED STARTING DATE 5/19/08
ESTIMATED COMPLETION DATE 5/23/08

- E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION. See attached.

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-88.

- (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 Jay Lapuyade Date 5/6/08

Approved Wyman Hong Date 5/14/08
Wyman Hong

ATTACH SITE PLAN OR SKETCH

APPENDIX B

Soil Boring Logs and Well Completion Details

PROJECT NAME Hanson Radum, AOC-8/SS123 Area

CLIENT Hanson Aggregates West Region

BORING NUMBER MW-1(SS123)

PAGE 1 OF 4

PROJECT LOCATION 3000 Busch Rd, Pleasanton, CA

DRILLING CONTRACTOR Boart Longyear

PROJECT NUMBER 001-09567-06

DRILLING METHOD Sonic

LOCATION AOC-8 (Legacy Partners Property)

STAMP (IF APPLICABLE) AND/OR NOTES

OVA EQUIPMENT PID

GROUND ELEVATION 372.28 ft HOLE DIAMETER 8 inches

TOP OF CASING ELEVATION NA HOLE DEPTH 81.0 ft

▽ FIRST ENCOUNTERED WATER 14.5 ft

▼ STABILIZED WATER 20.0 ft

LOGGED BY Jason Triolo DATE 5/21/08 - 5/22/08

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | DEPTH (feet) |
|--------------|----------------------|-----------------|----------|-------------|---------------|--|-------------------|-----------|--------------|
| 5 | MW-1(SS123)-5.0 | ■ | SM | | 5.0 | SILTY SAND WITH GRAVEL (SM), dark brown, dry, 40% fine sand, 40% non-plastic fines, 20% fine subangular gravel. -as above, moist, 40% fine to coarse sand, 30% fine gravel, 30% non-plastic fines. | 366.3 | 1.1 | 5 |
| 10 | MW-1(SS123)-13.0 | ■ | ML | | 13.0 | SANDY SILT (ML), moist, 70% non-plastic fines, 20% fine to coarse sand, 10% fine gravel. GRAVELLY SILT WITH SAND (ML), dark gray, moist, 55% non-plastic fines, 30% fine to coarse gravel, 15% fine sand. -as above, asphalt pieces. | 357.8 | 0.5 | 10 |
| 15 | MW-1(SS123)-GGW-18.0 | ■ | SM | | 14.5 | SILTY SAND WITH GRAVEL (SM), wet, 60% fine to coarse sand, 20% fine to coarse gravel, 20% non-plastic fines. Depth to water in sediments at approximately 14.5 feet during drilling. | 355.3 | | 15 |
| 20 | | | GM | | 17.0 | SILTY GRAVEL WITH SAND (GM), wet, 40% fine to coarse gravel, 30% non-plastic fines, 20% medium sand. | | | 20 |
| | | | | | 20.0 | ▼ Depth to water measured at 20 feet with solinst after drilling. | | | |

COMMENTS

(Continued Next Page)

BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/13/08

APPROVED BY: _____ DATE: _____



| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|-------------|---------------|---|-------------------|-----------|--------------|
| | | X | | ●●●● | | -as above, slight asphalt debris. | | | |
| | | | GM | ●●●● | 23.0 | | 349.3 | | |
| 25 | | | | | | SILT WITH SAND (ML), wet, 75% soft, low plasticity fines, 15% fine to medium sand, 10% fine to coarse gravel. | | | 25 |
| | | | ML | | | SANDY SILT WITH GRAVEL (ML), wet, 60% non-plastic fines, 20% fine gravel, 20% fine to medium sand. | | | |
| | | | | | 29.0 | | 343.3 | | |
| 30 | | | | | | SILTY SAND WITH GRAVEL (SM), wet, 50% medium to coarse sand, 30% non-plastic fines, 20% fine gravel. | | | 30 |
| | | | SM | | | | | | |
| | | | | | 32.0 | | 340.3 | | |
| 35 | | | | | | SILT WITH SAND (ML), mottled with black, moist, 85% firm, non-plastic fines, 10% fine sand, 5% fine gravel. | | | 35 |
| | | | | | | -as above, dry, 80% firm, non-plastic fines, 10% fine gravel, 10% fine to medium sand. | | 0.2 | |
| 40 | | | | | | | | | 40 |
| | | | ML | | | | | | |
| 45 | | | | | | -as above, wet, 55% fines, 30% fine to medium sand, 15% fine gravel. -concrete pieces and rope fragments. | | 0.8 | 45 |
| | | | | | | SILT WITH SAND (ML), wet, 75% medium plasticity fines, 15% fine to medium sand, 10% fine to coarse gravel. | | | |
| 50 | | | | | 50.0 | | 322.3 | | 50 |

COMMENTS

(Continued Next Page)

BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/13/08

APPROVED BY: _____ DATE: _____



| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|-------------|---------------|--|-------------------|-----------|--------------|
| 55 | MW-1(SS123)-50.5 | | GM | | 56.0 | SILT WITH SAND (SM) as for 48 feet interbedded with intervals of SILTY GRAVEL (GM), mottled with black, 80% fine to coarse gravel, 20% non-plastic fines several inches thick. Silty gravel contains asphalt debris. | 316.3 | | 55 |
| 60 | | | ML | | 60.0 | SILT (ML), wet, 90% non-plastic fines, 10% fine to coarse subrounded gravel, trace organic material, wood chips. | 312.3 | | 60 |
| 65 | MW-1(SS123)-63.0 | | CH | | | SANDY FAT CLAY (CH), wet, 60% soft, high plasticity fines, 30% fine to medium sand, 10% fine gravel. FAT CLAY (CH), light brown, wet, 100% soft, high plasticity fines. | | 0.0 | 65 |
| 70 | | | CH | | | | | | 70 |
| 75 | | | CH | | | | | | 75 |
| 80 | MW-1(SS123)-79.0 | | CH | | | | | 0.0 | 80 |

COMMENTS

(Continued Next Page)

BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/13/08

APPROVED BY: _____ DATE: _____



PROJECT NAME Hanson Radum, AOC-8/SS123 Area

BORING NUMBER MW-1(SS123)

CLIENT Hanson Aggregates West Region

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|-------------|---------------|--|-------------------|-----------|--------------|
| | | X | CH | ▨ | 81.0 | FAT CLAY (CH), light brown, wet, 100% soft, high plasticity fines. | 291.3 | | |
| | | | | | | Bottom of boring at approximately 81 feet bgs. Borehole abandoned after samples were collected. | | | |

COMMENTS

APPROVED BY: _____ DATE: _____



PROJECT NAME Hanson Radum, AOC-8/SS123 Area

CLIENT Hanson Aggregates West Region

BORING NUMBER MW-2(SS123)

PAGE 1 OF 4

PROJECT LOCATION 3000 Busch Rd, Pleasanton, CA

DRILLING CONTRACTOR Boart Longyear

PROJECT NUMBER 001-09567-06

DRILLING METHOD Sonic

LOCATION SS-123 Area (Legacy Partners Property)

STAMP (IF APPLICABLE) AND/OR NOTES

OVA EQUIPMENT PID

GROUND ELEVATION 369.65 ft msl HOLE DIAMETER 8 inches

TOP OF CASING ELEVATION NA HOLE DEPTH 81.0 ft

▽ FIRST ENCOUNTERED WATER 21.0 ft

STABILIZED WATER NM

LOGGED BY Jason Triolo DATE 5/20/08

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|-------------|---------------|---|-------------------|-----------|--------------|
| 5 | MW-2(SS123)-5.0 | ■ | SP-SM | | 4.5 | POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), dark grayish brown, moist, 60% medium sand, 30% fine to coarse subangular gravel, 10% non-plastic fines. | 365.2 | 1.0 | 5 |
| 10 | MW-2(SS123)-10.0 | ■ | SM | | 10.0 | SILTY SAND WITH GRAVEL (SM), 60% fine to medium sand, 25% non-plastic fines, 15% fine gravel. -as above, increased moisture. | 359.7 | 0.0 | 10 |
| 13 | MW-2(SS123)-13.0 | ■ | CL | | 13.0 | LEAN CLAY WITH SAND (CL), moist, 80% medium plasticity fines, 15% fine sand, 5% fine gravel. | 356.7 | | |
| 14 | MW-2(SS123)-14.0 | ■ | ML | | 14.0 | SILT WITH SAND (ML), moist, 80% low plasticity fines, 15% fine sand, 5% fine gravel. | 355.7 | 0.4 | |
| 15 | MW-2(SS123)-15.0 | ■ | SM | | 15.0 | SILTY SAND WITH GRAVEL (SM), dry, 40% fine to medium sand, 30% fine to coarse gravel, 30% non-plastic fines. -asphalt pieces between 14 and 15 feet. | | | 15 |
| 20 | MW-2(SS123)-20.0 | ■ | SM | | 20.0 | | 349.7 | 0.0 | 20 |

COMMENTS

(Continued Next Page)

BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/20/08

APPROVED BY: _____ DATE: _____



| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PIID (ppm) | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|-------------|---------------|---|-------------------|------------|--------------|
| | | X | | | | | | | |
| | | | ML | | ▽ 23.5 | SILT WITH SAND (ML), moist, 75% non-plastic fines, 20% fine sand, 5% fine gravel. SANDY SILT WITH GRAVEL (ML), wet, 55% low plasticity fines, 30% fine sand, 15% fine to coarse gravel. Depth to water in sediments at approximately 21 feet during drilling. | 346.2 | | |
| 25 | | | | | | LEAN CLAY (CL), gray, wet, 100% firm, medium plasticity fines. -as above, color change to brown. | | | 25 |
| 30 | | | | | | | | | 30 |
| 35 | | | | | | | | | 35 |
| 40 | | | CL | | | | | | 40 |
| 45 | | | | | | | | | 45 |
| 50 | | | | | | | | | 50 |

COMMENTS

(Continued Next Page)

BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/20/08

APPROVED BY: _____ DATE: _____



| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | DEPTH (feet) |
|--------------|--|-----------------|----------|-------------|---------------|---|-------------------|-----------|--------------|
| 55 | | X | | | | LEAN CLAY (CL), brown, wet, 100% firm, medium plasticity fines. | | | 55 |
| 60 | | | | | | | | | 60 |
| 65 | | | CL | | | -as above, 90% firm, medium plasticity fines, 10% fine to coarse gravel, mottled with black organic material. | | | 65 |
| 70 | | | | | | | | | 70 |
| 75 | MW-2(SS123)-74.0 MW-2(SS123)-GGW-75.0 | ■ | | | | SANDY LEAN CLAY (CL), dark brown mottled with gray-black, moist, 70% medium plasticity fines, 20% fine sand, 10% fine to coarse gravel. | 0.0 | | 75 |
| 80 | MW-2(SS123)-78.0 | ■ | | | | LEAN CLAY WITH SAND (CL), 80% medium plasticity fines, 10% fine gravel, 10% fine sand. | 0.0 | | 80 |

COMMENTS

(Continued Next Page)

BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/20/08

APPROVED BY: _____ DATE: _____



PROJECT NAME Hanson Radum, AOC-8/SS123 Area

BORING NUMBER MW-2(SS123)

CLIENT Hanson Aggregates West Region

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|-------------|---------------|--|-------------------|-----------|--------------|
| | | X | CL | ▨ | 81.0 | LEAN CLAY (CL), 100% medium plasticity fines. | 288.7 | | |
| | | | | | | Bottom of boring at approximately 81 feet bgs. Borehole abandoned after samples were collected. | | | |

COMMENTS

APPROVED BY: _____ DATE: _____



PROJECT NAME Hanson Radum, AOC-8/SS123 Area

CLIENT Hanson Aggregates West Region

WELL NUMBER MW-3(SS123)

PROJECT LOCATION 3000 Busch Rd, Pleasanton, CA

DRILLING CONTRACTOR Boart Longyear

PROJECT NUMBER 001-09567-06

DRILLING METHOD Sonic

LOCATION SS-123 Area (Legacy Partners Property)

STAMP (IF APPLICABLE) AND/OR NOTES

OVA EQUIPMENT PID

GROUND ELEVATION 371.36 ft msl HOLE DIAMETER 8 inches

TOP OF CASING ELEVATION 373.71 ft msl HOLE DEPTH 71.0 ft

▽ FIRST ENCOUNTERED WATER 17.0 ft / 31.0 ft / 60.0 ft

▼ STABILIZED WATER 41.49 ft TOC (5/29/08 before well development)

LOGGED BY Jason Triolo DATE 5/22/08

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | WELL DIAGRAM | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|-------------|---------------|---|-------------------|-----------|--|--------------|
| 5 | MW-3(SS123)-5.0 | ■ | SP | | 5.5 | POORLY GRADED SAND (SP), light grayish brown, dry, 90% poorly graded sand, 10% subangular fine gravel. -as above, 90% poorly graded sand, 5% fine gravel, 5% non-plastic fines. | 365.9 | 0.0 | <p>8" dia. Borehole</p> <p>2" dia. SCH40 PVC Blank Casing</p> <p>Grout</p> | 5 |
| 10 | MW-3(SS123)-10.0 | ■ | CL | | | LEAN CLAY WITH SAND (CL), moist, 80% medium plasticity fines, 15% fine sand, 5% fine gravel. SANDY LEAN CLAY (CL), moist, 80% medium plasticity fines, 10% fine gravel, 10% fine to medium sand. | | 0.0 | | 10 |
| 15 | MW-3(SS123)-15.0 | ■ | | | | | | 0.0 | | 15 |
| 20 | MW-3(SS123)- | ■ | SM | | 17.0 | SILTY SAND (SM), wet, 60% fine sand, 40% non-plastic fines. Depth to water in sediments at approximately 17 feet during drilling. | 354.4 | 0.0 | | 20 |

COMMENTS

(Continued Next Page)

BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/12/08

APPROVED BY: _____ DATE: _____



| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | WELL DIAGRAM | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|-------------|---------------|---|-------------------|-----------|--------------|--------------|
| | 20.0 | | | | | | | | | |
| 25 | MW-3(SS123)-25.0 | | SM | | | SILTY SAND (SM), wet, 60% fine sand, 40% non-plastic fines. | | 0.0 | | 25 |
| 30 | MW-3(SS123)-30.0 | | | | 27.0 | GRAVELLY SILT (ML), dry, 60% non-plastic fines, 30% fine gravel, 10% fine sand. | 344.4 | 0.0 | | 30 |
| 35 | MW-3(SS123)-35.0 | | | | | ▽ -as above, wet. Depth to water in sediments at approximately 31 feet during drilling. | | | | 35 |
| 40 | | | ML | | | SILT WITH GRAVEL (ML), dry, 85% firm, non-plastic fines, 10% fine to coarse gravel, 5% fine sand. | | | | 40 |
| 45 | MW-3(SS123)-42.0 | | | | | ▽ Depth to water measured at 41.49 feet with solinst on 5/29/08 before well development. SANDY SILT (ML), moist, 60% soft, non-plastic fines, 30% fine sand, 10% fine to coarse gravel. | | | | 45 |
| 50 | MW-3(SS123)-47.0 | | | | | | | | | 50 |

COMMENTS

(Continued Next Page)

BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/12/08

APPROVED BY: _____ DATE: _____



| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | WELL DIAGRAM | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|-------------|---------------|--|-------------------|-----------|--------------|--------------|
| 55 | MW-3(SS123)-55.0 | | ML | | 55.0 | SILT (ML), light grayish brown mottled with black, moist, 90% non-plastic fines, 5% fine gravel, 5% fine sand. | 316.4 | | | 55 |
| 60 | | | CL | | 60.0 | LEAN CLAY (CL), dark brown mottled with brown and gray, moist, 100% soft, medium plasticity fines. | 311.4 | | | 60 |
| 65 | | | SM | | 65.0 | SILTY SAND (SM), brown to light brown, wet, 80% fine sand, 20% non-plastic fines. Depth to water in sediments at approximately 60 feet during drilling. A temporary well was installed and left overnight, but borehole collapsed to approximately 55 feet bgs by next morning. Sediments wet during drilling to total depth but groundwater did not re-enter borehole sufficiently for grab groundwater sampling. | 306.4 | | | 65 |
| | | | CL | | 67.0 | LEAN CLAY (CL), brown, wet, 100% medium plasticity fines. | 304.4 | | | 70 |
| 70 | | | SM | | 71.0 | SILTY SAND (SM), brown to light brown, wet, 80% fine sand, 20% non-plastic fines. | 300.4 | | | 70 |
| | | | | | | Bottom of boring at approximately 71 feet bgs. Bottom of well at approximately 70 feet bgs. | | | | |

COMMENTS

APPROVED BY: _____ DATE: _____



BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/12/08

PROJECT NAME Hanson Radum, AOC-8/SS123 Area

CLIENT Hanson Aggregates West Region

WELL NUMBER MW-4(SS123)

PAGE 1 OF 2

PROJECT LOCATION 3000 Busch Rd, Pleasanton, CA

DRILLING CONTRACTOR Gregg Drilling

PROJECT NUMBER 001-09567-06

DRILLING METHOD Hollow Stem Auger

LOCATION SS-123 Area (Legacy Partners Property)

STAMP (IF APPLICABLE) AND/OR NOTES

OVA EQUIPMENT PID

GROUND ELEVATION 371.16 ft msl HOLE DIAMETER 6 inches

TOP OF CASING ELEVATION 373.30 ft msl HOLE DEPTH 30.0 ft

▽ FIRST ENCOUNTERED WATER 16.0 ft

▼ STABILIZED WATER 22.02 ft TOC (5/29/08 before well development)

LOGGED BY Tom Collins DATE 5/23/08

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | WELL DIAGRAM | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|-------------|---------------|--|-------------------|--------------------------------|--------------|
| | | | | | 3.0 | No recovery from 0 to 3 feet bgs. Fill. | | | |
| 5 | MW-4(SS123)-5.0 | ■ | | | | | 368.2 | 6" dia. Borehole | 5 |
| | MW-4(SS123)-7.0 | ■ | SP | | | POORLY GRADED SAND WITH GRAVEL (SP), dry, 80% sand, 15% gravel, 5% fines. | | 2" dia. SCH40 PVC Blank Casing | |
| 10 | | | | | 8.5 | | 362.7 | Grout | 10 |
| | MW-4(SS123)-12.0 | ■ | SM | | | SILTY SAND WITH GRAVEL (SM), moist, 70% sand, 15% fine to coarse gravel, 15% fines. | | | |
| 15 | | | | | 13.5 | | 357.7 | Bentonite Seal | 15 |
| | MW-4(SS123)-18.0 | ■ | SP-SM | | | POORLY GRADED SAND WITH SILT (SP-SM), moist to wet, 90% fine sand, 10% fines, trace fine gravel. Depth to water in sediments at approximately 16 feet during drilling. | | #3 Filter Sand | |
| 20 | | | | | | | | 2" dia. SCH40 PVC Well Screen | 20 |

COMMENTS

(Continued Next Page)

APPROVED BY: _____ DATE: _____



BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/13/08

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | WELL DIAGRAM | DEPTH (feet) |
|--------------|---------------------|-----------------|-------------|-------------|---------------|---|-------------------|--|--------------|
| 25 | MW-4(SS123) 24.0 | | SP-SM SM | | 23.0 23.3 | <p>Depth to water measured at 22.02 feet with solinst on 5/29/08 before well development.</p> <p>SILTY SAND (SM) interval (3" thick).</p> <p>POORLY GRADED SAND WITH SILT (SP-SM), moist to wet, 90% fine sand, 10% fines, trace fine gravel.</p> | 348.2 347.9 | <p>(0.020" slot)</p> <p>4" Long Threaded End Cap</p> | 25 |
| 30 | | | SP-SM | | 30.0 | Hole collapsed from 28 to 30 feet. | 341.2 | | 30 |
| | | | | | | Bottom of boring at approximately 30 feet bgs. Bottom of well at approximately 28 feet bgs. | | | |

COMMENTS

APPROVED BY: _____ DATE: _____



PROJECT NAME Hanson Radum, AOC-8/SS123 Area

CLIENT Hanson Aggregates West Region

BORING NUMBER SS-123(F4)

PAGE 1 OF 2

PROJECT LOCATION 3000 Busch Rd, Pleasanton, CA

DRILLING CONTRACTOR Gregg Drilling

PROJECT NUMBER 001-09567-06

DRILLING METHOD Hollow Stem Auger

LOCATION SS-123 Area (Legacy Partners Property)

STAMP (IF APPLICABLE) AND/OR NOTES

OVA EQUIPMENT PID






GROUND ELEVATION 371.27 ft msl HOLE DIAMETER 6 inches

TOP OF CASING ELEVATION NA HOLE DEPTH 27.0 ft

▽ FIRST ENCOUNTERED WATER 26.0 ft bgs

▼ STABILIZED WATER 23.0 ft bgs

LOGGED BY Tom Collins DATE 5/22/08

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | DEPTH (feet) |
|--------------|--------------------|--|----------|--|---------------|---|-------------------|--------------|
| 5 | | | |  | 5.0 | No recovery. Fill, chunks of concrete, coarse gravel, sand, clay. | 366.3 | 5 |
| 10 | SS-123(F4)-5.5 |  | |  | | SILTY SAND (SM), dry, 70% sand, 20% fines, 10% coarse gravel, contains chunks of concrete and trace organic material, fill. | | 10 |
| 15 | SS-123(F4)-13.0 |  SM | | | | -From 10 to 11 feet, advanced without coring because soil too hard. SILTY SAND (SM), dry to moist, 50% sand, 40% fines, 10% gravel, contains organic material, fill. | | 15 |
| 20 | SS-123(F4)-18.0 |  | | | | -as above, increasing coarseness and decreasing moisture at 15 feet. -asphalt material in soil at 18 feet. | | 20 |

COMMENTS

(Continued Next Page)

APPROVED BY: _____ DATE: _____







BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/12/08

PROJECT NAME Hanson Radum, AOC-8/SS123 Area

BORING NUMBER SS-123(F4)

CLIENT Hanson Aggregates West Region

PAGE 2 OF 2

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | DEPTH (feet) |
|--------------|--------------------|---|----------|---|---------------|--|-------------------|--------------|
| | SS-123(F4)-GGW-23 | | SM |  | | No recovery from 20 to 25 feet. | | |
| 25 | |  | SP |  | 22.0 | POORLY GRADED SAND WITH GRAVEL (SP), wet, fine to coarse sand, increasing coarseness with depth. Depth to water measured at 23 feet with solinst after drilling. | 349.3 | 25 |
| | |  | | | 27.0 | Depth to water in sediments at approximately 26 feet during drilling. -concrete chunks at 27 feet, hit refusal. Bottom of boring at approximately 27 feet bgs. Borehole abandoned after samples were collected. | 344.3 | |

COMMENTS

APPROVED BY: _____ DATE: _____



PROJECT NAME Hanson Radum, AOC-8/SS123 Area

CLIENT Hanson Aggregates West Region

BORING NUMBER SS-123(F5)

PAGE 1 OF 3

PROJECT LOCATION 3000 Busch Rd, Pleasanton, CA

DRILLING CONTRACTOR Boart Longyear

PROJECT NUMBER 001-09567-06

DRILLING METHOD Sonic

LOCATION SS-123 Area (Legacy Partners Property)

STAMP (IF APPLICABLE) AND/OR NOTES

OVA EQUIPMENT PID




GROUND ELEVATION 372.44 ft msl HOLE DIAMETER 8 inches

TOP OF CASING ELEVATION NA HOLE DEPTH 71.0 ft

▽ FIRST ENCOUNTERED WATER 15.0 ft bgs and 24.0 ft bgs

▼ STABILIZED WATER 24.0 ft bgs

LOGGED BY Jason Triolo DATE 5/19/08

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|---|---------------|--|-------------------|-----------|--------------|
| 5 | SS-123(F5)-5.0 | ■ | SM |  | 5.0 | SILTY SAND (SM), dark gray, moist, 50% medium sand, 30% low plasticity fines, 20% subangular fine to coarse gravel. | 367.4 | 6.0 | 5 |
| 10 | SS-123(F5)-10.0 | ■ | CL |  | | SANDY LEAN CLAY (CL), 60% medium plasticity fines, 30% fine to medium sand, 10% fine to coarse gravel. -asphalt debris (large chunks). | | 4.5 | 10 |
| 15 | SS-123(F5)-15.0 | ■ | | | 15.0 | LEAN CLAY WITH SAND (CL), dark brown, dry, 85% firm, medium plasticity fines, 10% fine sand, 5% fine subangular gravel. | 357.4 | 1.8 | 15 |
| 20 | SS-123(F5)-18.0 | ■ | ML |  | | SANDY SILT (ML), dark grayish brown, wet, 55% low plasticity fines, 40% fine sand, 5% fine gravel. Depth to water in sediments at approximately 15 feet during drilling. -asphalt debris (gravel). | | 3.0 | 20 |

COMMENTS

(Continued Next Page)

BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/12/08

APPROVED BY: _____ DATE: _____



| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | DEPTH (feet) |
|--------------|---------------------|-----------------|----------|-------------|---------------|--|-------------------|-----------|--------------|
| | SS-123(F5)-21.0 | | ML | | 21.0 | SILT WITH SAND (ML), dark grayish brown, wet, 85% non-plastic fines, 10% fine sand, 5% fine gravel. | 351.4 | 4.8 | |
| 25 | SS-123(F5)-GGW-25.0 | | SM | | ▽ ▽ | Depth to water in sediments at approximately 24 feet during drilling. Depth to water measured at approximately 24 feet with solinst after drilling. | | 2.0 | 25 |
| | | | | | 27.0 | SANDY SILT WITH GRAVEL (ML), wet, 50% low plasticity fines, 30% medium sand, 20% fine to coarse gravel. | 345.4 | 1.0 | |
| 30 | | | ML | | | | | | 30 |
| | | | | | 32.0 | SANDY LEAN CLAY WITH GRAVEL (CL), wet, 60% medium plasticity fines, 25% fine sand, 15% fine to coarse gravel. | 340.4 | | |
| 35 | | | CL | | | | | | |
| | | | | | 35.0 | SILTY SAND WITH GRAVEL (SM), 50% medium to coarse sand, 30% low plasticity fines, 20% fine to coarse gravel. | 337.4 | | 35 |
| | | | SM | | | | | | |
| | | | | | 37.0 | FAT CLAY (CH), brown to light brown, moist, 100% high plasticity fines. | 335.4 | | |
| 40 | | | CH | | | | | | 40 |
| 45 | | | | | | | | | 45 |
| 50 | SS-123(F5)-50.0 | | | | | | | | 50 |






COMMENTS

(Continued Next Page)

BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/12/08

APPROVED BY: _____ DATE: _____



| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | PID (ppm) | DEPTH (feet) |
|--------------|--------------------|---|----------|---|---------------|--|-------------------|-----------|--------------|
| 55 | | | CH |  | | FAT CLAY (CH), brown to light brown, moist, 100% high plasticity fines. | | | 55 |
| 60 | | | CH |  | | | | | 60 |
| 65 | SS-123(F5)-66.0 |  | SP-SM |  | 64.5 | POORLY GRADED SAND WITH SILT (SP-SM), dark brown, wet, 90% fine to medium sand, 10% non-plastic fines. | 307.9 | | 65 |
| 70 | | | CH |  | 66.5 | FAT CLAY (CH), brown, wet, 85% high plasticity fines, 15% fine sand. | 305.9 | | 70 |
| | | | | | 71.0 | Bottom of boring at approximately 71 feet bgs. Borehole abandoned after samples were collected. | 301.4 | | |

COMMENTS

APPROVED BY: _____ DATE: _____



PROJECT NAME Hanson Radum, AOC-8/SS123 Area

CLIENT Hanson Aggregates West Region

BORING NUMBER SS-123(F6)

PAGE 1 OF 2

PROJECT LOCATION 3000 Busch Rd, Pleasanton, CA

DRILLING CONTRACTOR Gregg Drilling

PROJECT NUMBER 001-09567-06

DRILLING METHOD Hollow Stem Auger

LOCATION SS-123 Area (Legacy Partners Property)

STAMP (IF APPLICABLE) AND/OR NOTES

OVA EQUIPMENT PID

GROUND ELEVATION 373.55 ft msl HOLE DIAMETER 6 inches

TOP OF CASING ELEVATION NA HOLE DEPTH 30.0 ft

▽ FIRST ENCOUNTERED WATER 26.0 ft

▼ STABILIZED WATER 24.0 ft

LOGGED BY Tom Collins DATE 5/22/08

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | DEPTH (feet) |
|--------------|--------------------|-----------------|----------|-------------|---------------|--|-------------------|--------------|
| 5 | | | | | 5.0 | No recovery. Fill, dry, chunks of concrete, coarse gravel, sand. | 368.6 | 5 |
| 10 | SS-123(F6)-6.0 | | ML | | 8.0 | SANDY SILT (ML), dry, 60% low plasticity fines, 30% sand, 10% gravel. | 365.6 | 10 |
| 15 | SS-123(F6)-12.0 | | SP-SM | | 12.0 | -as above, increasing fines content at 12 feet. | | 15 |
| 20 | SS-123(F6)-17.0 | | ML | | 15.5 | | 358.1 | 15.5 |
| | | | SP-SM | | 16.0 | SANDY SILT (ML), moist, 60% low plasticity fines, 30% sand, 10% gravel. | 357.6 | 16.0 |
| | | | SP | | 18.5 | POORLY GRADED SAND (SP), moist to wet, 85% sand, 15% gravel, decreasing gravel content with depth. | 355.1 | 18.5 |
| | | | | | | | | 20 |

COMMENTS

(Continued Next Page)

APPROVED BY: _____ DATE: _____



BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/13/08

PROJECT NAME Hanson Radum, AOC-8/SS123 Area

BORING NUMBER SS-123(F6)

CLIENT Hanson Aggregates West Region

| DEPTH (feet) | SAMPLE TYPE NUMBER | SAMPLE RECOVERY | U.S.C.S. | GRAPHIC LOG | DEPTHS (feet) | LITHOLOGIC DESCRIPTION | ELEVATIONS (feet) | DEPTH (feet) |
|--|--|-----------------|----------|-------------|---------------|---|-------------------|--------------|
| 25 | SS-123(F6)-23.0 SS-123(F6)-GGW-24.0 | | SP | | 24.5 | POORLY GRADED SAND (SP), moist to wet, 85% sand, 15% gravel, decreasing gravel content with depth. ▼ Depth to water measured at approximately 24 feet with solinst after drilling. | 349.1 | 25 |
| 30 | SS-123(F6)-27.0 | | SP-SM | | 30.0 | ▼ POORLY GRADED SAND WITH SILT (SP-SM), wet, 90% sand, 10% fines, trace coarse gravel. Depth to water in sediments at approximately 26 feet during drilling. | 343.6 | 30 |
| Bottom of boring at approximately 30 feet bgs. Borehole abandoned after samples were collected. | | | | | | | | |

COMMENTS

APPROVED BY: _____ DATE: _____



BORING+WELL 2007 001-09567-06.GPJ LFR SEPT 2006.GDT 6/13/08

APPENDIX C

Laboratory Certified Analytical Reports



Laboratory Job Number 203423
ANALYTICAL REPORT

LFR Levine Fricke
1900 Powell Street
Emeryville, CA 94608

Project : 001-09567-01
Location : Hanson Radium
Level : II

Table with 2 columns: Sample ID and Lab ID. Lists various sample identifiers and their corresponding lab IDs.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: [Handwritten Signature]
Project Manager

Date: 06/03/2008

Signature: [Handwritten Signature]
Senior Program Manager

Date: 06/11/2008

CASE NARRATIVE

Laboratory number: 203423
Client: LFR Levine Fricke
Project: 001-09567-01
Location: Hanson Radum
Request Date: 05/20/08
Samples Received: 05/20/08

This hardcopy data package contains sample and QC results for ten soil samples and two water samples, requested for the above referenced project on 05/20/08. The samples were received cold and intact. All data were e-mailed to Ron Goloubow on 06/03/08.

TPH-Purgeables and/or BTXE by GC (EPA 8021B):

MW-2-GGW-23.0 (lab # 203423-009) had pH greater than 2. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

A number of samples were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) WET DI Leachate:

Low surrogate recoveries were observed for hexacosane in the MS/MSD for batch 138588; the parent sample was not a project sample. No other analytical problems were encountered.

Benzene, Toluene, Ethylbenzene, Xylenes

| | | | |
|-----------|-------------------|-----------|---------------|
| Lab #: | 203423 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09567-01 | Analysis: | EPA 8021B |
| Matrix: | Water | Diln Fac: | 1.000 |
| Units: | ug/L | Received: | 05/20/08 |

| | | | |
|-----------|--------------------|-----------|----------|
| Field ID: | SS123(F5)-GGW-25.0 | Batch#: | 138466 |
| Type: | SAMPLE | Sampled: | 05/19/08 |
| Lab ID: | 203423-008 | Analyzed: | 05/22/08 |

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | 0.55 | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 80 | 60-146 |
| Bromofluorobenzene (PID) | 84 | 65-143 |

| | | | |
|-----------|----------------------|-----------|----------|
| Field ID: | MW-2(SS123)-GGW-23.0 | Batch#: | 138416 |
| Type: | SAMPLE | Sampled: | 05/20/08 |
| Lab ID: | 203423-009 | Analyzed: | 05/22/08 |

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 90 | 60-146 |
| Bromofluorobenzene (PID) | 92 | 65-143 |

ND= Not Detected
 RL= Reporting Limit



Benzene, Toluene, Ethylbenzene, Xylenes

| | | | |
|-----------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09567-01 | Analysis: | EPA 8021B |
| Matrix: | Water | Diln Fac: | 1.000 |
| Units: | ug/L | Received: | 05/20/08 |

Type: BLANK Batch#: 138416
 Lab ID: QC442973 Analyzed: 05/21/08

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 88 | 60-146 |
| Bromofluorobenzene (PID) | 89 | 65-143 |

Type: BLANK Batch#: 138466
 Lab ID: QC443184 Analyzed: 05/22/08

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 90 | 60-146 |
| Bromofluorobenzene (PID) | 91 | 65-143 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report
Benzene, Toluene, Ethylbenzene, Xylenes

| | | | |
|-----------|-------------------|-----------|---------------|
| Lab #: | 203423 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09567-01 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 138416 |
| Units: | ug/L | Analyzed: | 05/21/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC442980

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Benzene | 10.00 | 9.796 | 98 | 80-120 |
| Toluene | 10.00 | 10.55 | 106 | 80-120 |
| Ethylbenzene | 10.00 | 10.27 | 103 | 80-120 |
| m,p-Xylenes | 10.00 | 9.753 | 98 | 80-120 |
| o-Xylene | 10.00 | 9.962 | 100 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 86 | 60-146 |
| Bromofluorobenzene (PID) | 89 | 65-143 |

Type: BSD Lab ID: QC442981

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Benzene | 10.00 | 9.030 | 90 | 80-120 | 8 | 20 |
| Toluene | 10.00 | 9.204 | 92 | 80-120 | 14 | 20 |
| Ethylbenzene | 10.00 | 9.121 | 91 | 80-120 | 12 | 20 |
| m,p-Xylenes | 10.00 | 9.179 | 92 | 80-120 | 6 | 20 |
| o-Xylene | 10.00 | 9.049 | 90 | 80-120 | 10 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 85 | 60-146 |
| Bromofluorobenzene (PID) | 88 | 65-143 |

RPD= Relative Percent Difference

Batch QC Report
Benzene, Toluene, Ethylbenzene, Xylenes

| | | | |
|-----------|-------------------|-----------|---------------|
| Lab #: | 203423 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09567-01 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 138466 |
| Units: | ug/L | Analyzed: | 05/22/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC443188

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Benzene | 10.00 | 10.57 | 106 | 80-120 |
| Toluene | 10.00 | 10.80 | 108 | 80-120 |
| Ethylbenzene | 10.00 | 10.77 | 108 | 80-120 |
| m,p-Xylenes | 10.00 | 10.47 | 105 | 80-120 |
| o-Xylene | 10.00 | 10.68 | 107 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 90 | 60-146 |
| Bromofluorobenzene (PID) | 93 | 65-143 |

Type: BSD Lab ID: QC443189

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Benzene | 10.00 | 10.69 | 107 | 80-120 | 1 | 20 |
| Toluene | 10.00 | 11.57 | 116 | 80-120 | 7 | 20 |
| Ethylbenzene | 10.00 | 11.58 | 116 | 80-120 | 7 | 20 |
| m,p-Xylenes | 10.00 | 11.05 | 111 | 80-120 | 5 | 20 |
| o-Xylene | 10.00 | 11.10 | 111 | 80-120 | 4 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 87 | 60-146 |
| Bromofluorobenzene (PID) | 87 | 65-143 |

RPD= Relative Percent Difference

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Matrix: | Water | Diln Fac: | 1.000 |
| Units: | ug/L | Received: | 05/20/08 |

| | | | |
|-----------|--------------------|-----------------|-----------|
| Field ID: | SS123(F5)-GGW-25.0 | Sampled: | 05/19/08 |
| Type: | SAMPLE | Prepared: | 05/22/08 |
| Lab ID: | 203423-008 | Analyzed: | 05/27/08 |
| Batch#: | 138461 | Cleanup Method: | EPA 3630C |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 85 Y | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 77 | 63-130 |

| | | | |
|-----------|----------------------|-----------------|-----------|
| Field ID: | MW-2(SS123)-GGW-23.0 | Sampled: | 05/20/08 |
| Type: | SAMPLE | Prepared: | 05/29/08 |
| Lab ID: | 203423-009 | Analyzed: | 06/02/08 |
| Batch#: | 138702 | Cleanup Method: | EPA 3630C |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 500 Y | 56 |
| Motor Oil C24-C36 | 380 | 330 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 85 | 63-130 |

| | | | |
|---------|----------|-----------------|-----------|
| Type: | BLANK | Prepared: | 05/22/08 |
| Lab ID: | QC443159 | Analyzed: | 05/27/08 |
| Batch#: | 138461 | Cleanup Method: | EPA 3630C |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 73 | 63-130 |

| | | | |
|---------|----------|-----------------|-----------|
| Type: | BLANK | Prepared: | 05/29/08 |
| Lab ID: | QC444166 | Analyzed: | 06/01/08 |
| Batch#: | 138702 | Cleanup Method: | EPA 3630C |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 77 | 63-130 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 138461 |
| Units: | ug/L | Prepared: | 05/22/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/27/08 |

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC443160

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 1,761 | 70 | 61-120 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 79 | 63-130 |

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC443161

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 1,914 | 77 | 61-120 | 8 | 29 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 76 | 63-130 |

RPD= Relative Percent Difference

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 138702 |
| Units: | ug/L | Prepared: | 05/29/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/02/08 |

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC444167

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 2,208 | 88 | 61-120 |

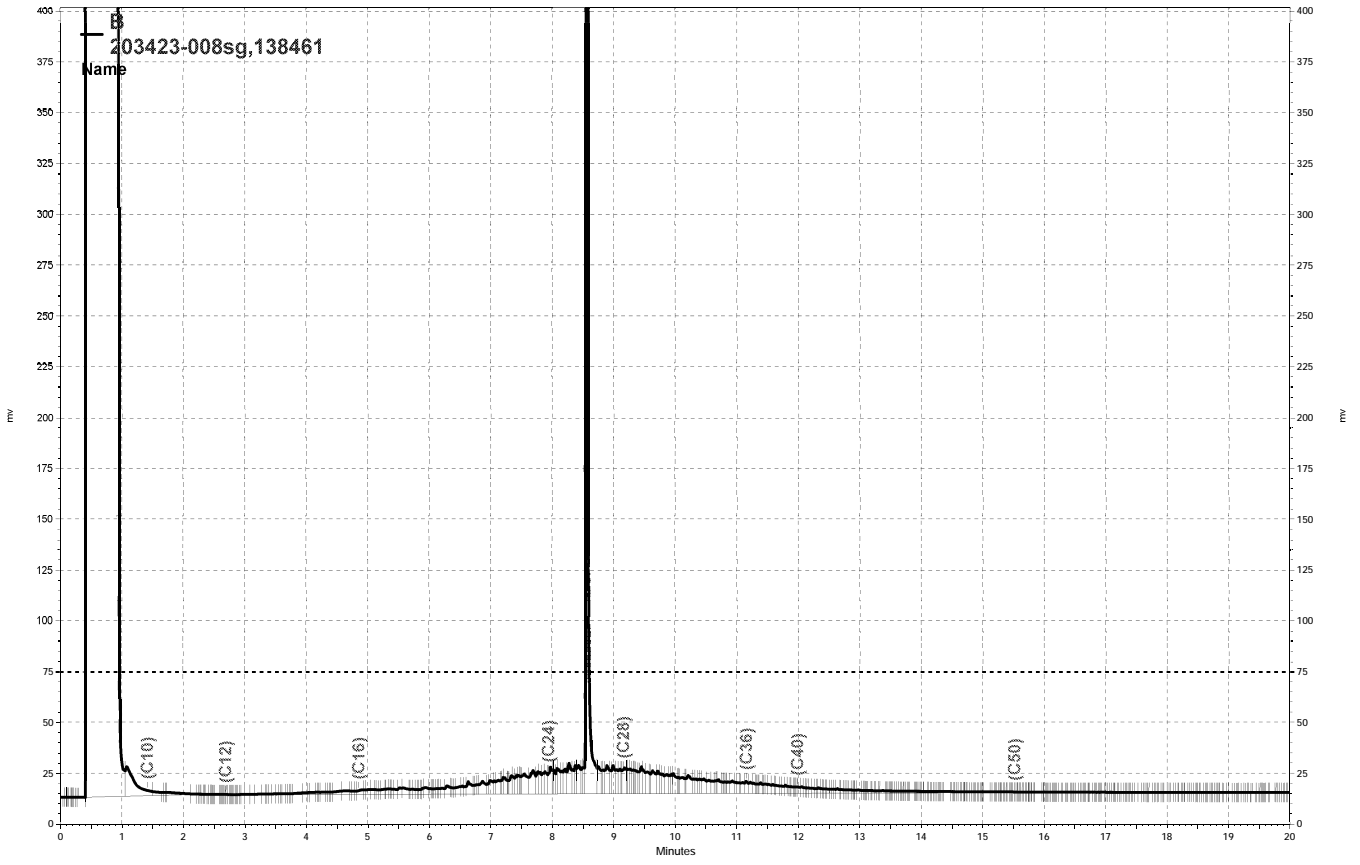
| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 104 | 63-130 |

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC444168

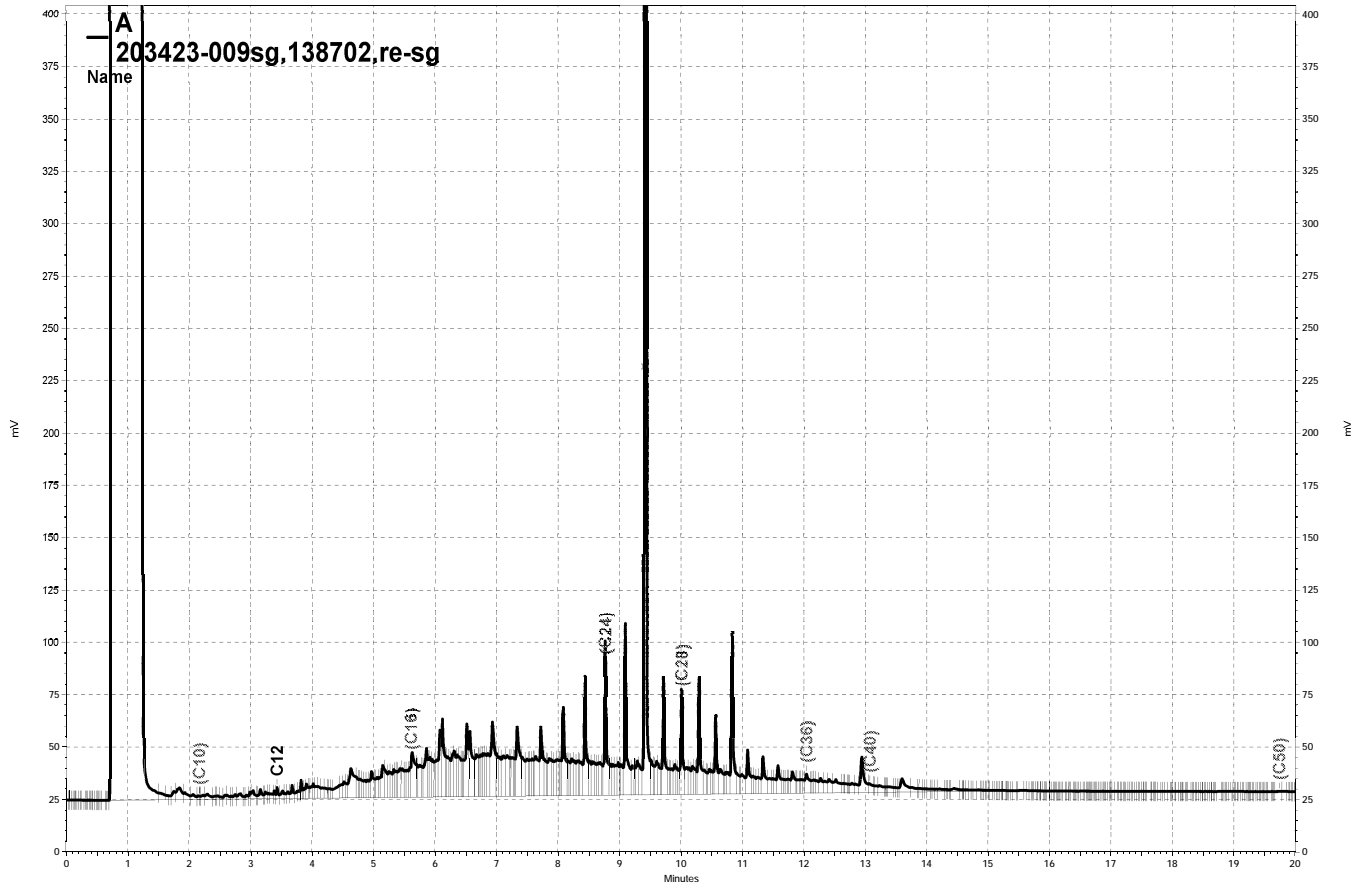
| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 1,762 | 70 | 61-120 | 22 | 29 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 98 | 63-130 |

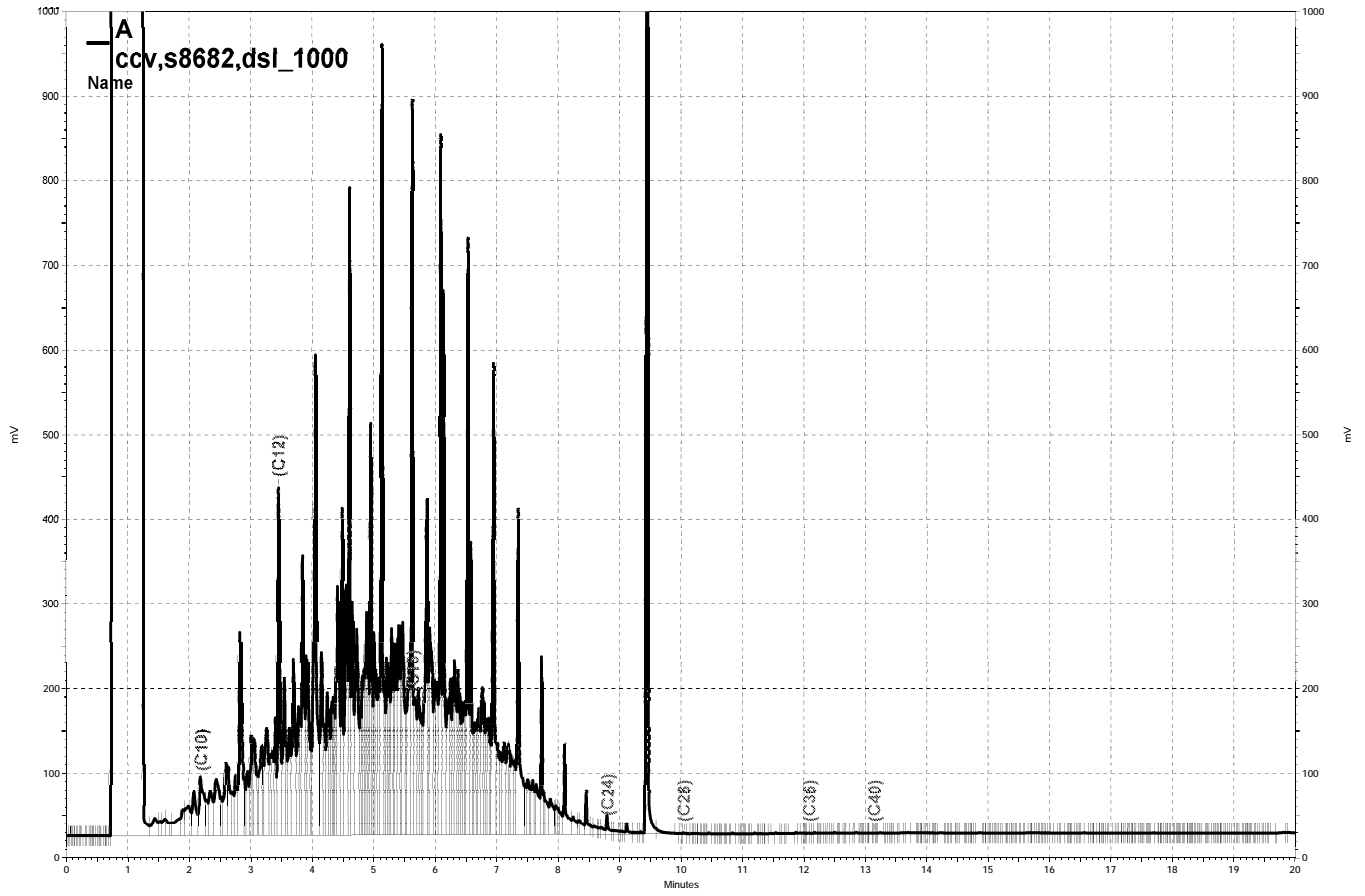
RPD= Relative Percent Difference



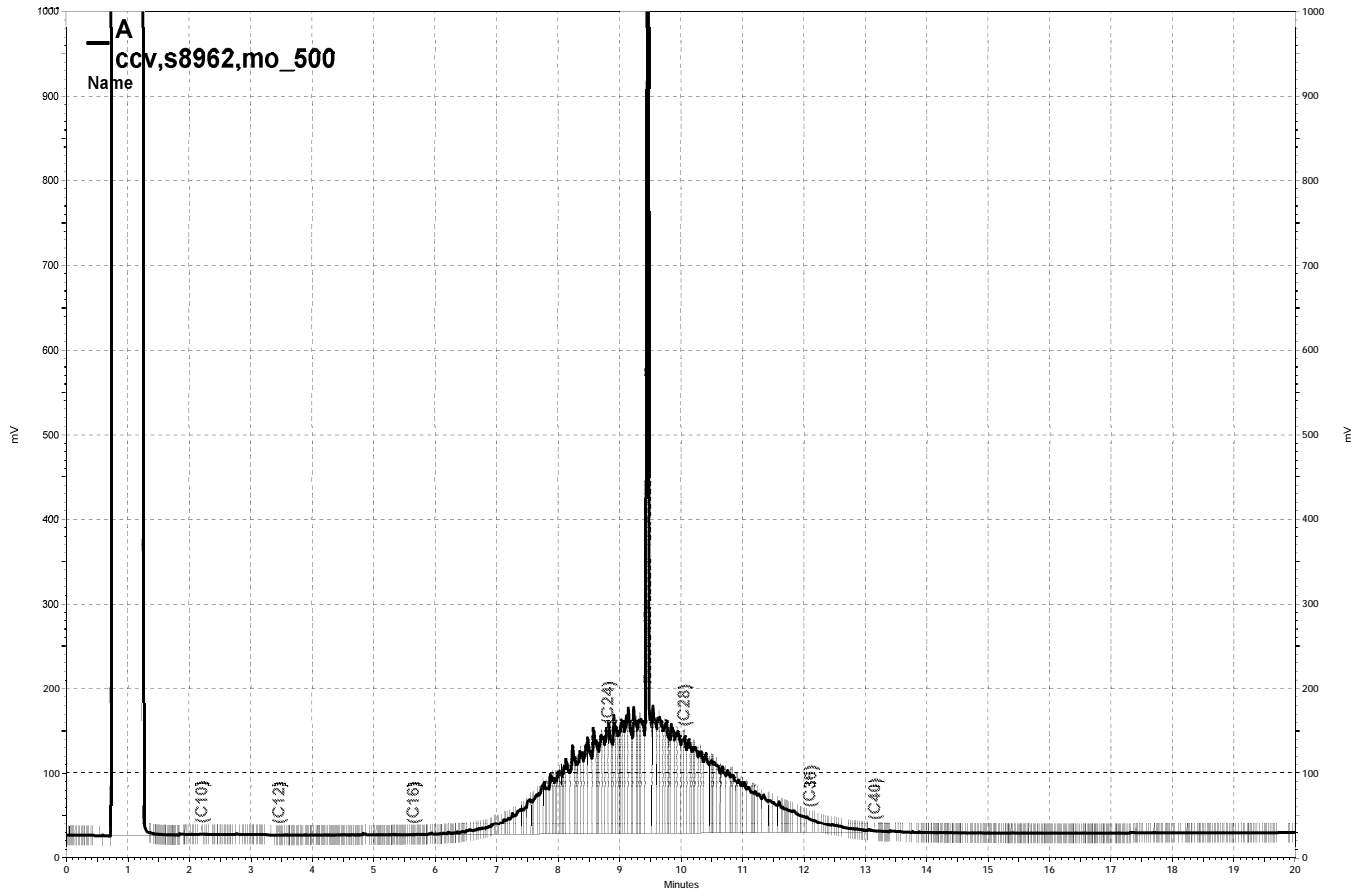
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\148b008, B



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\153a043, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\148a003, A



— \\Lims\gdrive\ezchrom\Projects\GC11A\Data\148a004, A

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Matrix: | Soil | Batch#: | 138473 |
| Units: | mg/Kg | Received: | 05/20/08 |
| Basis: | as received | Prepared: | 05/22/08 |

Field ID: SS123(F5)-5.0 Sampled: 05/19/08
 Type: SAMPLE Analyzed: 05/23/08
 Lab ID: 203423-001 Cleanup Method: EPA 3630C
 Diln Fac: 1.000

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 3.7 Y | 1.0 |
| Motor Oil C24-C36 | 43 | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 101 | 48-128 |

Field ID: SS123(F5)-10.0 Sampled: 05/19/08
 Type: SAMPLE Analyzed: 05/23/08
 Lab ID: 203423-002 Cleanup Method: EPA 3630C
 Diln Fac: 5.000

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 62 Y | 5.0 |
| Motor Oil C24-C36 | 640 | 25 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 48 | 48-128 |

Field ID: SS123(F5)-15.0 Sampled: 05/19/08
 Type: SAMPLE Analyzed: 05/23/08
 Lab ID: 203423-003 Cleanup Method: EPA 3630C
 Diln Fac: 2.000

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 17 Y | 2.0 |
| Motor Oil C24-C36 | 250 | 10 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 85 | 48-128 |

Field ID: SS123(F5)-21.0 Sampled: 05/19/08
 Type: SAMPLE Analyzed: 05/23/08
 Lab ID: 203423-005 Cleanup Method: EPA 3630C
 Diln Fac: 1.000

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | 3.4 Y | 0.99 |
| Motor Oil C24-C36 | 16 | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 97 | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Matrix: | Soil | Batch#: | 138473 |
| Units: | mg/Kg | Received: | 05/20/08 |
| Basis: | as received | Prepared: | 05/22/08 |

Field ID: SS123(F5)-66.0 Sampled: 05/19/08
 Type: SAMPLE Analyzed: 05/23/08
 Lab ID: 203423-007 Cleanup Method: EPA 3630C
 Diln Fac: 1.000

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | ND | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 80 | 48-128 |

Field ID: MW-2(SS123)-5.0 Sampled: 05/20/08
 Type: SAMPLE Analyzed: 05/23/08
 Lab ID: 203423-010 Cleanup Method: EPA 3630C
 Diln Fac: 3.000

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 21 Y | 3.0 |
| Motor Oil C24-C36 | 420 | 15 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 83 | 48-128 |

Field ID: MW-2(SS123)-10.0 Sampled: 05/20/08
 Type: SAMPLE Analyzed: 05/23/08
 Lab ID: 203423-011 Cleanup Method: EPA 3630C
 Diln Fac: 2.000

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 23 Y | 2.0 |
| Motor Oil C24-C36 | 260 | 10 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 85 | 48-128 |

Field ID: MW-2(SS123)-14.0 Sampled: 05/20/08
 Type: SAMPLE Analyzed: 05/24/08
 Lab ID: 203423-012 Cleanup Method: EPA 3630C
 Diln Fac: 1.000

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 13 Y | 1.0 |
| Motor Oil C24-C36 | 190 | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 102 | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Matrix: | Soil | Batch#: | 138473 |
| Units: | mg/Kg | Received: | 05/20/08 |
| Basis: | as received | Prepared: | 05/22/08 |

Field ID: MW-2(SS123)-20.0 Sampled: 05/20/08
 Type: SAMPLE Analyzed: 05/24/08
 Lab ID: 203423-013 Cleanup Method: EPA 3630C
 Diln Fac: 1.000

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | 27 Y | 0.99 |
| Motor Oil C24-C36 | 120 | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 92 | 48-128 |

Field ID: MW-2(SS123)-74.0 Sampled: 05/20/08
 Type: SAMPLE Analyzed: 05/23/08
 Lab ID: 203423-015 Cleanup Method: EPA 3630C
 Diln Fac: 1.000

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 86 | 48-128 |

Type: BLANK Analyzed: 05/23/08
 Lab ID: QC443216 Cleanup Method: EPA 3630C
 Diln Fac: 1.000

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 109 | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC443217 | Batch#: | 138473 |
| Matrix: | Soil | Prepared: | 05/22/08 |
| Units: | mg/Kg | Analyzed: | 05/23/08 |
| Basis: | as received | | |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 49.97 | 48.49 | 97 | 54-126 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 115 | 48-128 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 138473 |
| MSS Lab ID: | 203475-001 | Sampled: | 05/22/08 |
| Matrix: | Soil | Received: | 05/22/08 |
| Units: | mg/Kg | Prepared: | 05/22/08 |
| Basis: | as received | Analyzed: | 05/26/08 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC443218

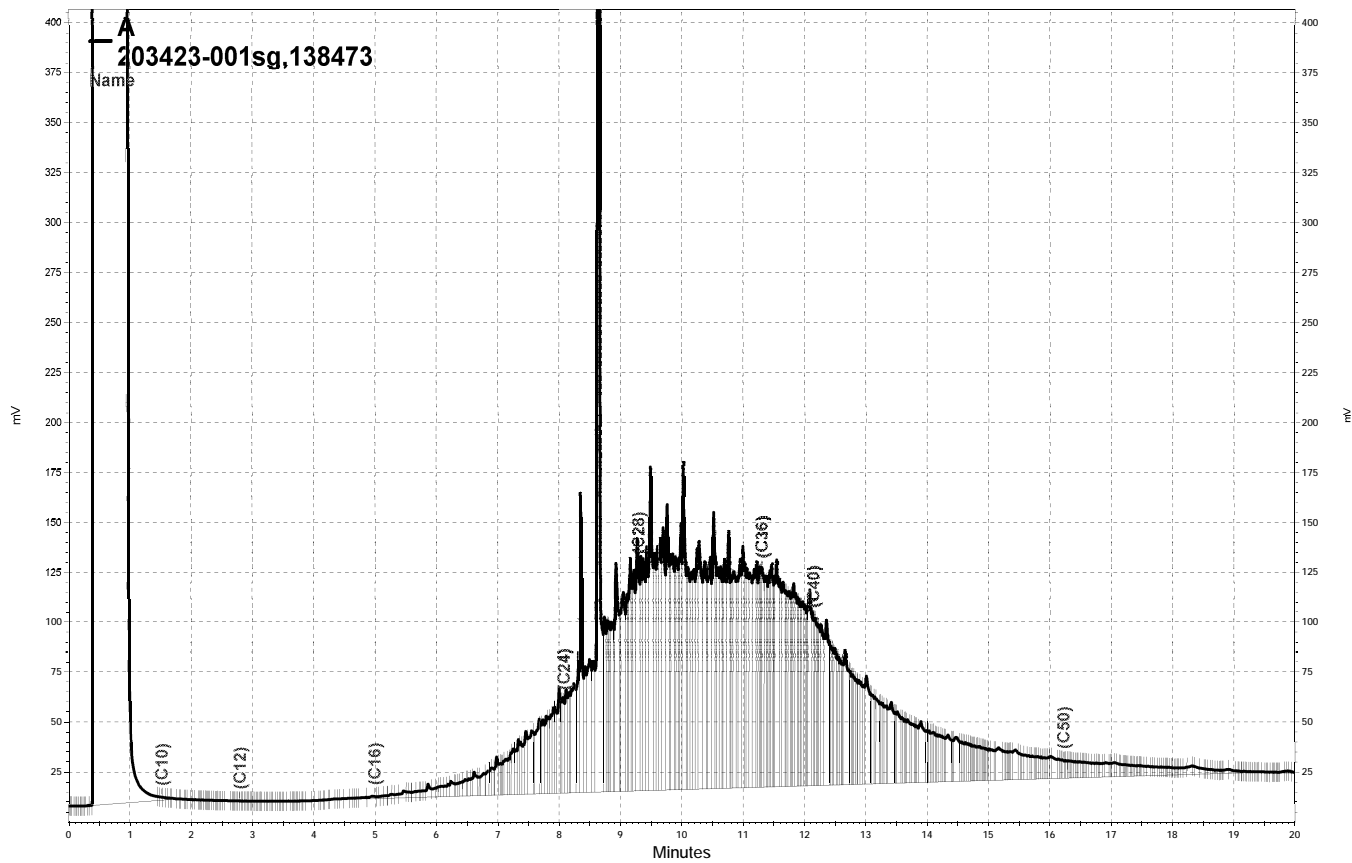
| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | 12.47 | 49.98 | 77.23 | 130 | 34-144 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 100 | 48-128 |

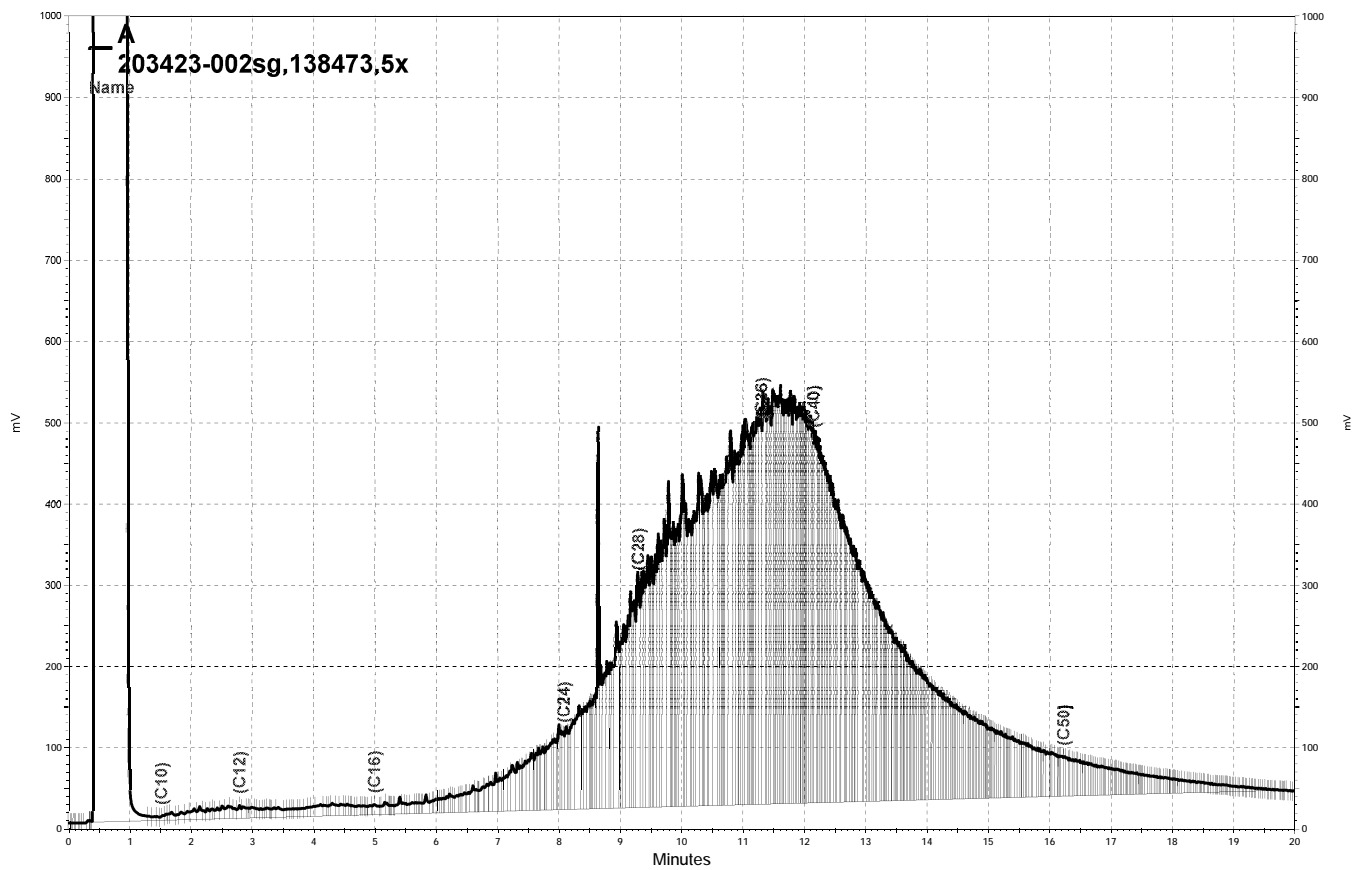
Type: MSD Lab ID: QC443219

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 49.98 | 67.24 | 110 | 34-144 | 14 | 47 |

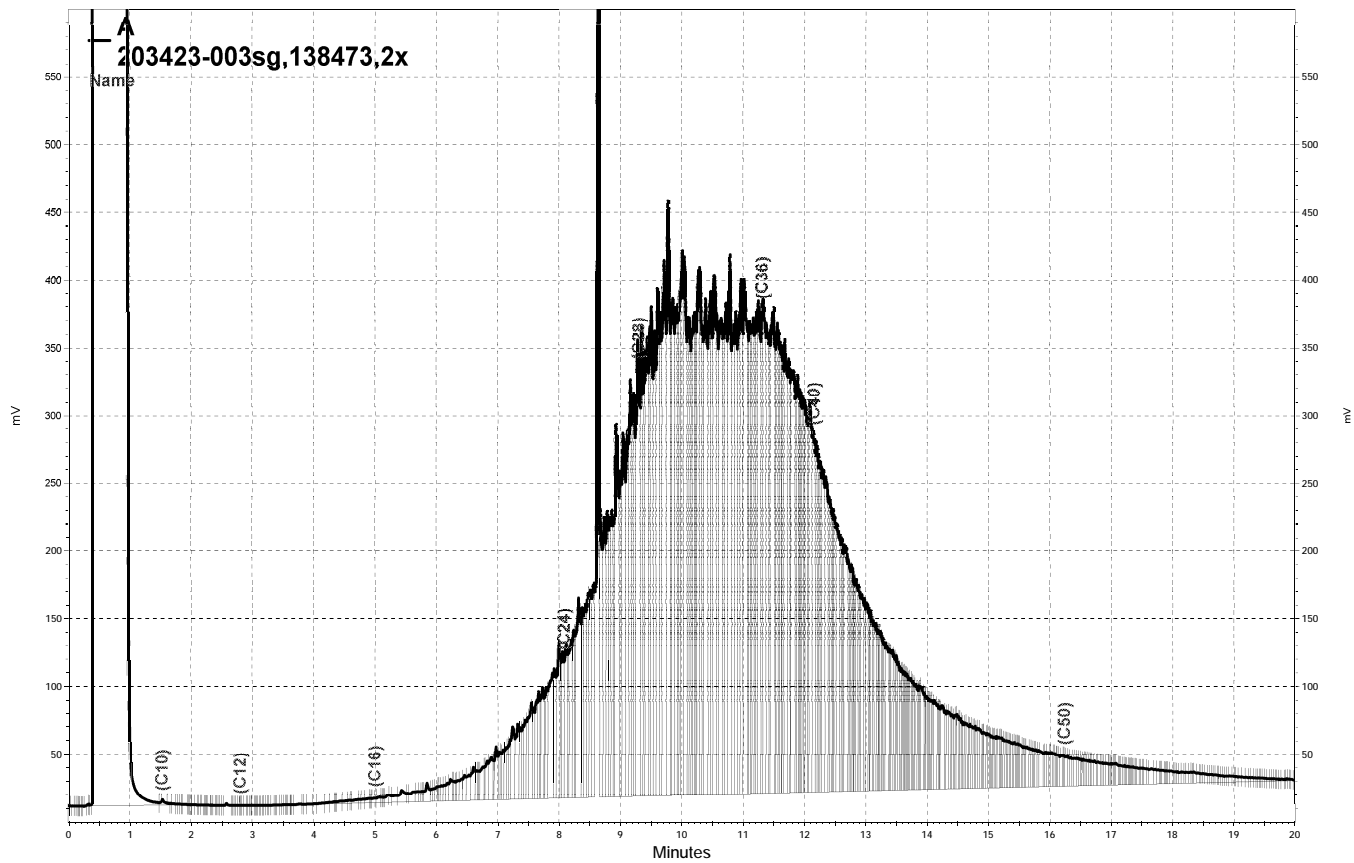
| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 96 | 48-128 |



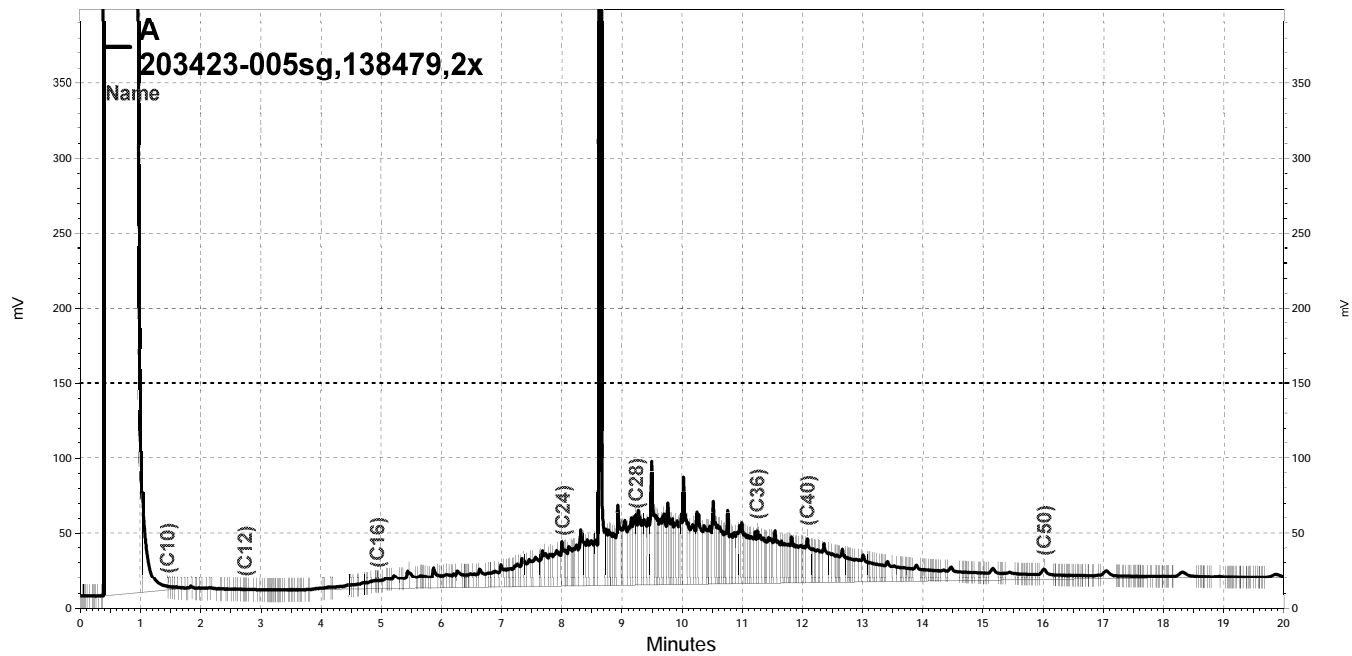
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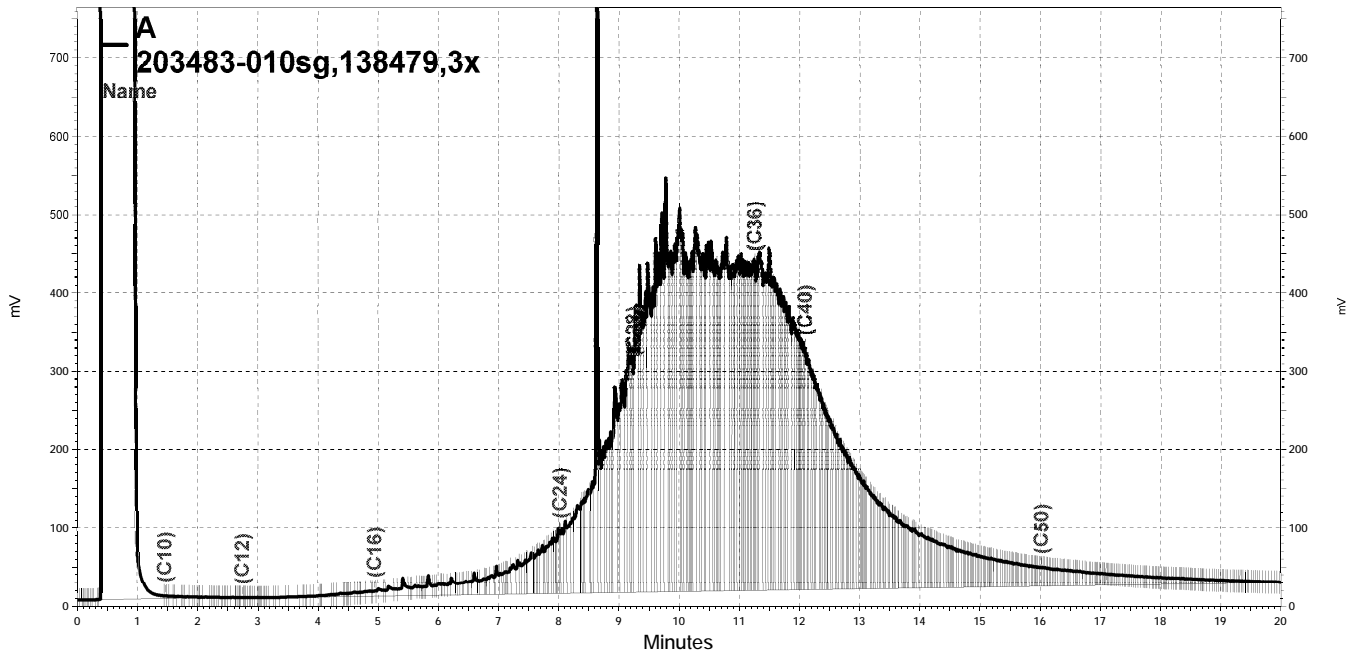
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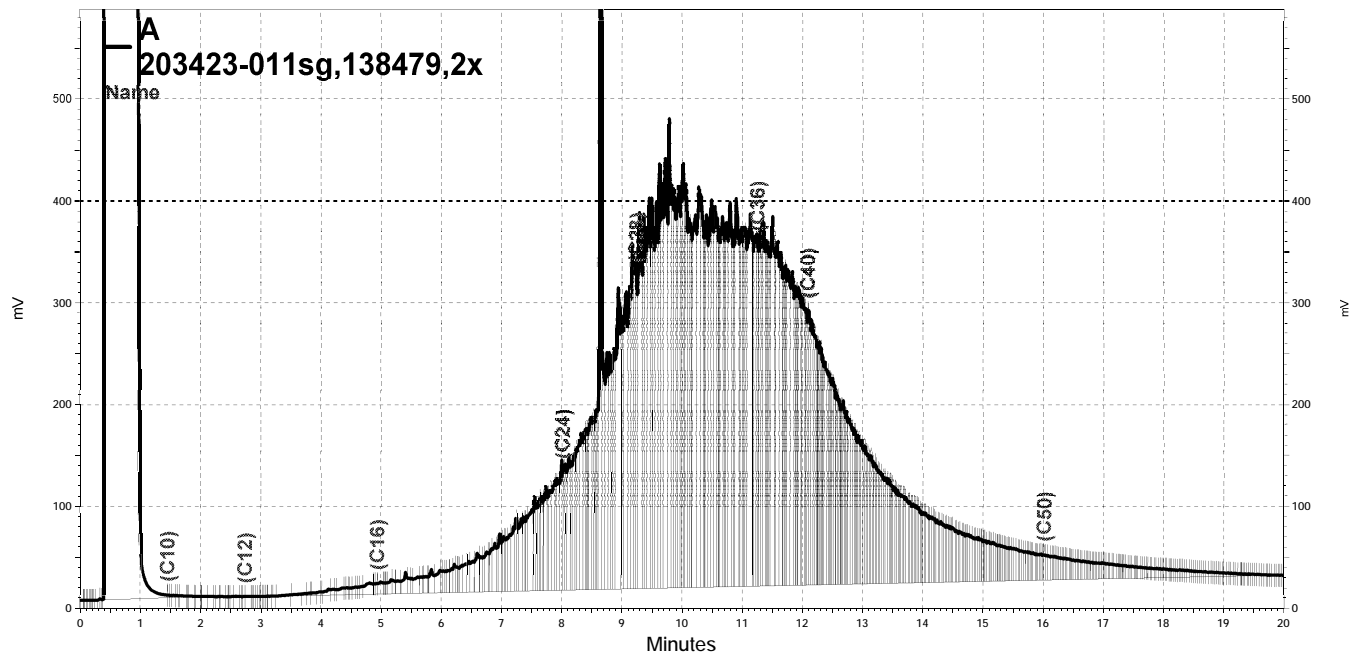
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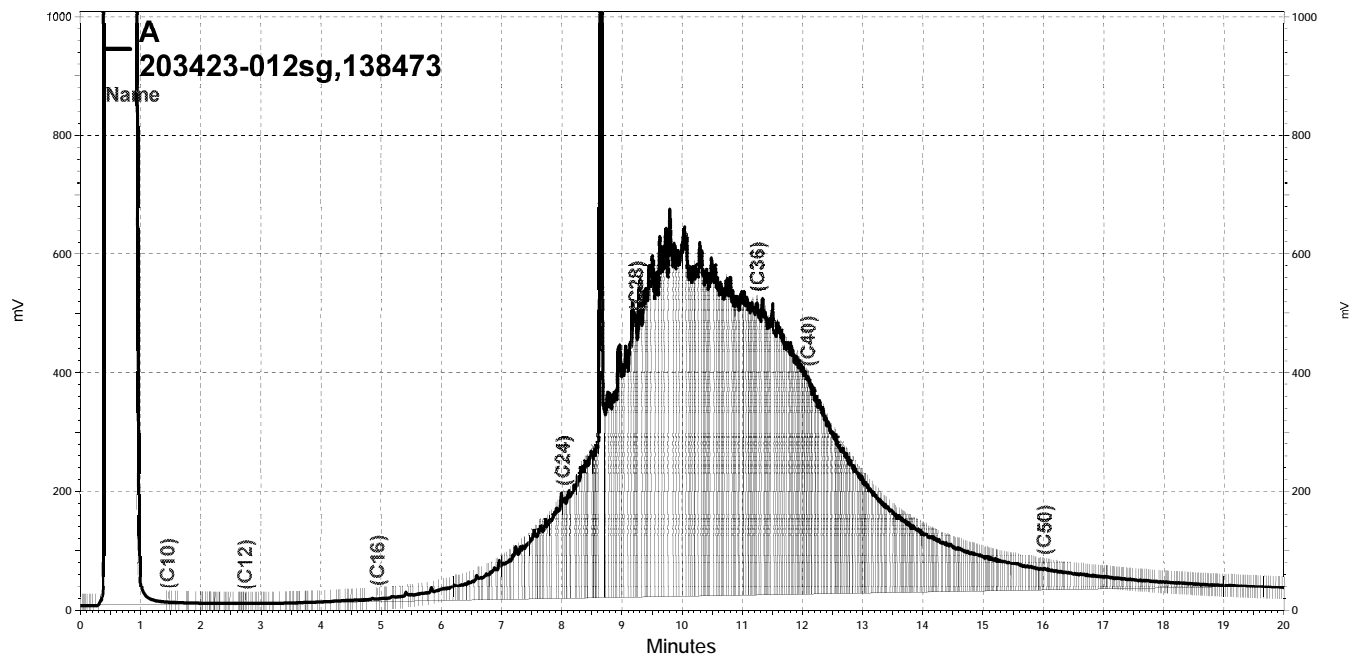
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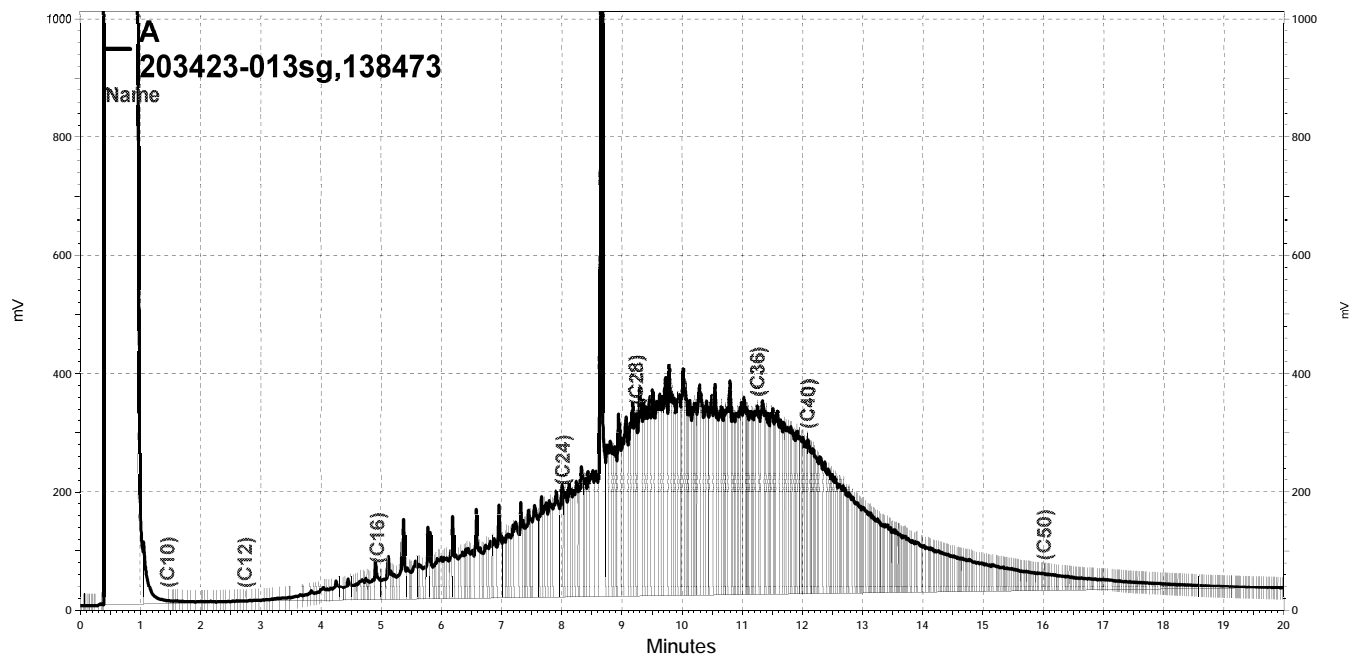
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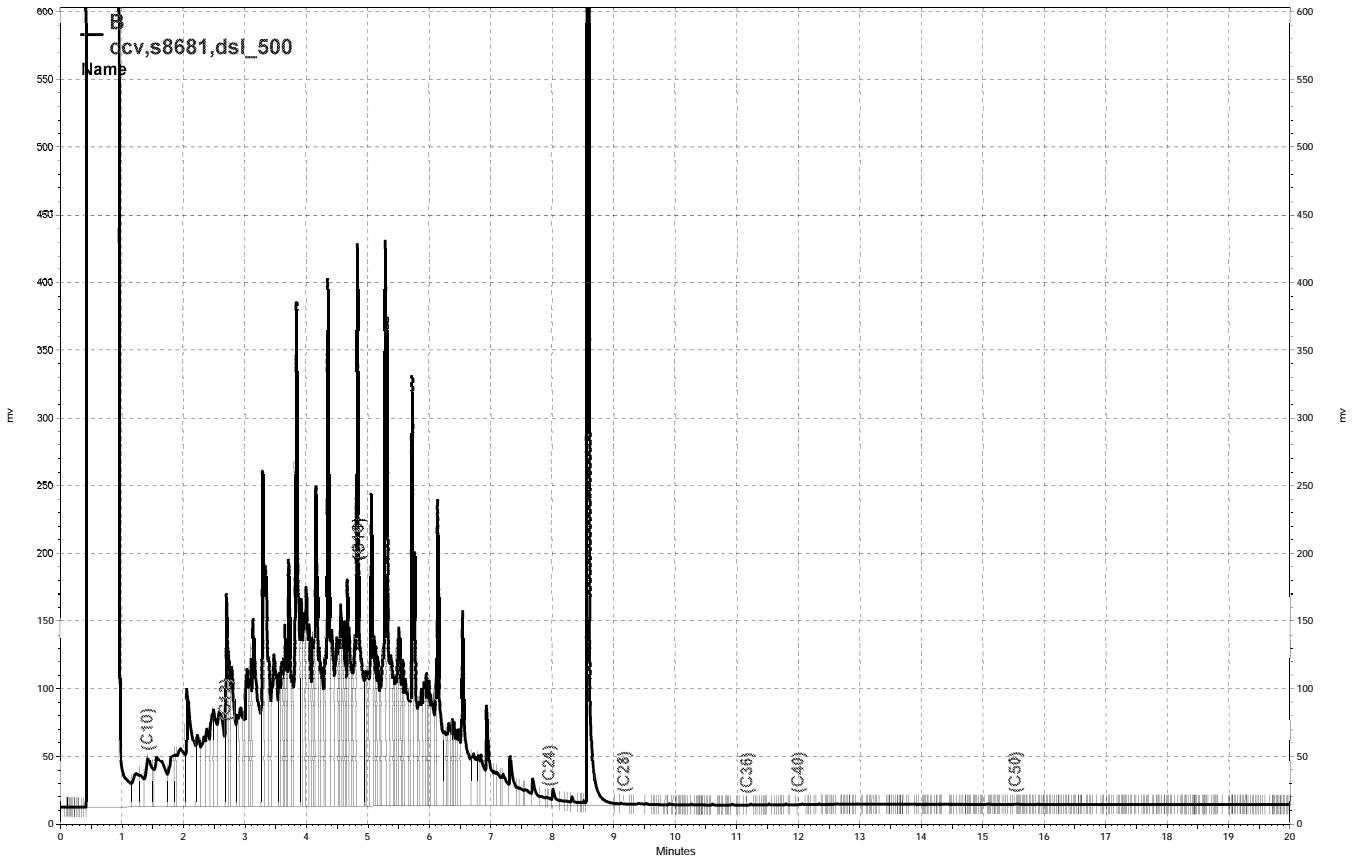
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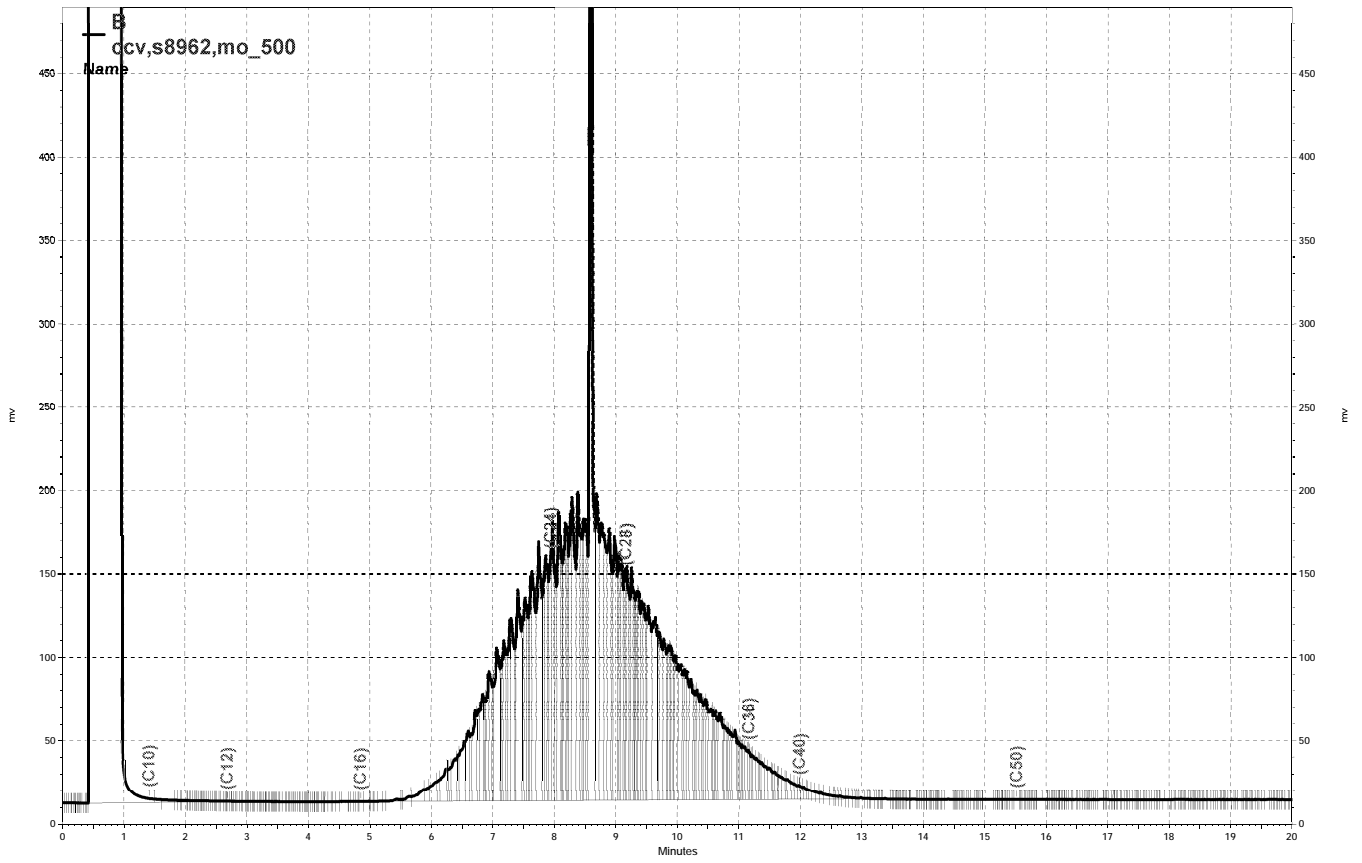
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— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\143a066, A



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\\Lims\gdrive\ezchrom\Projects\GC15B\Data\144b004, B

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Units: | ug/L | Received: | 05/20/08 |
| Diln Fac: | 1.000 | | |

Field ID: SS123(F5)-10.0 Sampled: 05/19/08
 Type: SAMPLE Prepared: 05/27/08
 Lab ID: 203423-002 Analyzed: 05/29/08
 Matrix: WET DI Leachate Cleanup Method: EPA 3630C
 Batch#: 138588

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 100 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 107 | 63-130 |

Field ID: MW-2(SS123)-14.0 Sampled: 05/20/08
 Type: SAMPLE Prepared: 06/06/08
 Lab ID: 203423-012 Analyzed: 06/09/08
 Matrix: WET DI Leachate Cleanup Method: EPA 3630C
 Batch#: 139000

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 100 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 114 | 63-130 |

Type: BLANK Prepared: 05/27/08
 Lab ID: QC443665 Analyzed: 05/28/08
 Matrix: Water Cleanup Method: EPA 3630C
 Batch#: 138588

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 100 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 96 | 63-130 |

Type: BLANK Prepared: 06/06/08
 Lab ID: QC445410 Analyzed: 06/09/08
 Matrix: Water Cleanup Method: EPA 3630C
 Batch#: 139000

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 100 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 127 | 63-130 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC443666 | Batch#: | 138588 |
| Matrix: | Water | Prepared: | 05/27/08 |
| Units: | ug/L | Analyzed: | 05/28/08 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 2,106 | 84 | 61-120 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 107 | 63-130 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|---------------|
| Lab #: | 203423 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 138588 |
| MSS Lab ID: | 203539-014 | Sampled: | 05/23/08 |
| Matrix: | Water | Received: | 05/23/08 |
| Units: | ug/L | Prepared: | 05/27/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/28/08 |

Type: MS
 Lab ID: QC443667

Cleanup Method: EPA 3630C

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|-------------|----------|--------|
| Diesel C10-C24 | 163,500 | 2,500 | 121,800 >LR | -1671 NM | 58-126 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 10 * | 63-130 |

Type: MSD
 Lab ID: QC443668

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|-------------|----------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 100,300 >LR | -2529 NM | 58-126 | NC | 31 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 14 * | 63-130 |

*= Value outside of QC limits; see narrative
 NC= Not Calculated
 NM= Not Meaningful: Sample concentration > 4X spike concentration
 >LR= Response exceeds instrument's linear range
 RPD= Relative Percent Difference

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC445411 | Batch#: | 139000 |
| Matrix: | Water | Prepared: | 06/06/08 |
| Units: | ug/L | Analyzed: | 06/10/08 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 2,551 | 102 | 61-120 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 110 | 63-130 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203423 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 139000 |
| MSS Lab ID: | 203769-009 | Sampled: | 06/04/08 |
| Matrix: | Water | Received: | 06/05/08 |
| Units: | ug/L | Prepared: | 06/06/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/09/08 |

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC445412

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | <13.76 | 2,500 | 1,537 | 61 | 58-126 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 95 | 63-130 |

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC445413

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 1,831 | 73 | 58-126 | 17 | 31 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 108 | 63-130 |

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

AnalysisC & T LOGIN #: 203423Sampler: JTProject No.: 001-09567Report To: Ron G (SIO) S01-1789Project Name: Hanson, RadumCompany: LFR, Inc.

Project P.O.:

Telephone: (510) 316-6096 JTTurnaround Time: Standard

Fax:

| Lab No. | Sample ID. | Sampling Date Time | Matrix | | | # of Containers | Preservative | | | |
|---------|------------|--------------------|--------|-------|-------|-----------------|--------------|--------------------------------|------------------|-----|
| | | | Soil | Water | Waste | | HCL | H ₂ SO ₄ | HNO ₃ | ICE |
| 1 | FS-SS-9.0 | 5/19 1045 | X | | | 1 | | | | X |
| 2 | FS-SS-10.0 | 1100 | | | | | | | | |
| 3 | FS-SS-15.0 | 1115 | | | | | | | | |
| 4 | FS-SS-18.0 | 1130 | | | | | | | | |
| 5 | FS-SS-21.0 | 1145 | | | | | | | | |
| 6 | FS-SS-50.0 | 1600 | | | | | | | | |
| 7 | FS-SS-66.0 | 1615 | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TPH Diesel & motor oil - 8015 w/ Silica-gel cleanup [8oz] | | | | | | | | | |
| X | X | X | X | X | X | X | X | X | X |
| TPH Diesel & motor oil w/ Silica-gel using WET method (split-sample) [16oz] | | | | | | | | | |
| X | X | X | X | X | X | X | X | X | X |
| | | | | | | | | | |
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Notes:

SAMPLE RECEIPT

Intact Cold
 On Ice Ambient

Preservative Correct?
 Yes No N/A

RELINQUISHED BY:

JT SIO 1430 DATE / TIME

DATE / TIME

DATE / TIME

RECEIVED BY:

[Signature] 5/20/18 1430 DATE / TIME

DATE / TIME

DATE / TIME

SIGNATURE

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878

2323 Fifth Street
Berkeley, CA 94710
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(510) 486-0532 Fax

CHAIN OF CUSTODY

Analysis

C & T LOGIN #: 203423

Sampler: JT rielb

Project No.: 001-09567

Report To: Ron G. - (510) 501-1789

Project Name: Hanson Radon

Company: LEF, Inc.

Project P.O.:

Telephone: (510) 316-6096 -JT

Turnaround Time: Standard

Fax:

| Lab No. | Sample ID. | Sampling Date Time | Matrix | | | # of Containers | Preservative | | | | | |
|---------|--------------------|--------------------|--------|-------|-------|-----------------|--------------|--------------------------------|------------------|-----|--|--|
| | | | Soil | Water | Waste | | HCL | H ₂ SO ₄ | HNO ₃ | ICE | | |
| | FS-25.0 | | | | | | | | | | | |
| 8 | FS-GGW-25.0 | 1400-5/19 | X | | | 1 | | | | X | | |
| | FS-GGW-25.0 | 1400-5/19 | X | | | 5 | X | | | X | | |
| 9 | MW-2-GGW-23.0 | 1015-5/20 | X | | | 1 | | | | X | | |
| | MW-2-GGW-23.0 | 1015-5/20 | X | | | 5 | X | | | X | | |

| | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|---|--|--|
| TPH diesel + motor oil - 8015 w/ Silica - gel cleaning BTEX - 8021 | | | | | | | | | | | |
| X | | | | | | | | | | | |
| | | | | | | | | | X | | |
| X | | | | | | | | | | | |
| | | | | | | | | | X | | |

Notes:

SAMPLE RECEIPT

Intact Cold

On Ice Ambient

Preservative Correct?

Yes No N/A

RELINQUISHED BY:

JT 5/20 1430 DATE / TIME

DATE / TIME

DATE / TIME

RECEIVED BY:

[Signature] 5/20/08 1430 DATE / TIME

DATE / TIME

DATE / TIME

SIGNATURE

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878

2323 Fifth Street

Berkeley, CA 94710

(510) 486-0900 Phone

(510) 486-0532 Fax

CHAIN OF CUSTODY

Analysis

C & T LOGIN #: 203423

Sampler: JS

Report To: Ron G

Company: LFR Inc

Telephone: (510) 316 6096

Fax:

Project No.: 001-09567

Project Name: Hanson Radon

Project P.O.:

Turnaround Time: Standard

| Lab No. | Sample ID. | Sampling Date Time | | Matrix | | | # of Containers | Preservative | | | | | | | | | | | |
|---------|------------------------|--------------------|----------------|--------------|-------|-------|-----------------|--------------|--------------------------------|------------------|-----|--|--|--|--|--|--|--|--|
| | | | | Soil | Water | Waste | | HCL | H ₂ SO ₄ | HNO ₃ | ICE | | | | | | | | |
| | MW-2-SS-5.0 | 5/20 | 930 | X | | | | | | | | | | | | | | | |
| 10 | MW-2-SS-5.0 | 5/20 | 930 | X | | | 1 | | | | | | | | | | | | |
| 11 | MW-2-SS-10.0 | | 0940 | | | | | | | | | | | | | | | | |
| 12 | MW-2-SS-14.0 | | 0945 | | | | | | | | | | | | | | | | |
| 13 | MW-2-SS-20.0 | | 1010 | | | | | | | | | | | | | | | | |
| 14 | MW-2-SS-65.0 | | 1145 | | | | | | | | | | | | | | | | |
| 15 | MW-2-SS-74.0 | | 1220 | | | | | | | | | | | | | | | | |
| 16 | MW-2-SS-78.0 | | 1230 | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|---|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| TPH diesel + mo w/silica gel-cleanup [80Z] | TPH diesel + mo w/silica gel-cleanup + WET [160Z] | Hold | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | |
| X | X | | | | | | | | | | | | | | | | | | | |
| X | X | X | | | | | | | | | | | | | | | | | | |
| X | X | X | | | | | | | | | | | | | | | | | | |

Notes:

SAMPLE RECEIPT

Intact Cold

On Ice Ambient

Preservative Correct?

Yes No N/A

RELINQUISHED BY:

JS 5/20 @ 1430 DATE / TIME

[Signature] 5/20/00 DATE / TIME

RECEIVED BY:

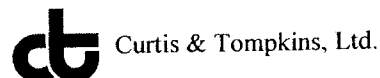
DATE / TIME

DATE / TIME

DATE / TIME

SIGNATURE

COOLER RECEIPT CHECKLIST



Login # 203423 Date Received 5-20-08 Number of coolers 2
Client LFR Project Hanson, Radium

Date Opened By (print) F Nichols (sign) [Signature]
Date Logged in 5-20-08 By (print) [Signature] (sign) [Signature]

- 1. Did cooler come with a shipping slip (airbill, etc)? YES (NO)
Shipping info
2A. Were custody seals present? YES (circle) on cooler on samples NO
How many Name Date
2B. Were custody seals intact upon arrival? YES NO (N/A)
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)
Bubble Wrap Foam blocks Bags None
Cloth material Cardboard Styrofoam Paper towels
7. If required, was sufficient ice used? Samples should be < or = 6°C YES NO N/A
Type of ice used: Wet Blue None Temp(°C)
Samples Received on ice & cold without a temperature blank
Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? YES (NO)
If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are samples in the appropriate containers for indicated tests? YES NO
11. Are sample labels present, in good condition and complete? YES NO
12. Do the sample labels agree with custody papers? YES NO
13. Was sufficient amount of sample sent for tests requested? YES NO
14. Are the samples appropriately preserved? YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? YES NO N/A
16. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Multiple horizontal lines for handwritten comments.



Laboratory Job Number 203529
ANALYTICAL REPORT

LFR Levine Fricke
1900 Powell Street
Emeryville, CA 94608

Project : 001-09567-06
Location : Hanson Radium
Level : II

Table with 2 columns: Sample ID and Lab ID. Lists various sample identifiers and their corresponding lab IDs.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: [Handwritten Signature]
Project Manager

Date: 06/03/2008

Signature: [Handwritten Signature]
Quality Assurance Director

Date: 06/06/2008

CASE NARRATIVE

Laboratory number: 203529
Client: LFR Levine Fricke
Project: 001-09567-06
Location: Hanson Radum
Request Date: 05/23/08
Samples Received: 05/23/08

This hardcopy data package contains sample and QC results for twelve soil samples and three water samples, requested for the above referenced project on 05/23/08. The samples were received cold and intact. All data were e-mailed to Ron Goloubow on 06/03/08.

TPH-Purgeables and/or BTXE by GC (EPA 8021B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

Low surrogate recoveries were observed for hexacosane in the MS/MSD for batch 138588; the parent sample was not a project sample. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) WET DI Leachate:

No analytical problems were encountered.

Benzene, Toluene, Ethylbenzene, Xylenes

| | | | |
|-----------|-------------------|-----------|---------------|
| Lab #: | 203529 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09567-06 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 138630 |
| Units: | ug/L | Received: | 05/23/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/28/08 |

Field ID: SS123(F4)-GGW-23.0 Lab ID: 203529-004
 Type: SAMPLE Sampled: 05/22/08

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 84 | 60-146 |
| Bromofluorobenzene (PID) | 100 | 65-143 |

Field ID: SS123(F6)-GGW-24.0 Lab ID: 203529-010
 Type: SAMPLE Sampled: 05/23/08

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 86 | 60-146 |
| Bromofluorobenzene (PID) | 103 | 65-143 |

ND= Not Detected
 RL= Reporting Limit

Benzene, Toluene, Ethylbenzene, Xylenes

| | | | |
|-----------|-------------------|-----------|---------------|
| Lab #: | 203529 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09567-06 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 138630 |
| Units: | ug/L | Received: | 05/23/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/28/08 |

Field ID: MW-4(SS123)-GGW-24.0 Lab ID: 203529-015
 Type: SAMPLE Sampled: 05/23/08

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 98 | 60-146 |
| Bromofluorobenzene (PID) | 118 | 65-143 |

Type: BLANK Lab ID: QC443846

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 93 | 60-146 |
| Bromofluorobenzene (PID) | 95 | 65-143 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report
Benzene, Toluene, Ethylbenzene, Xylenes

| | | | |
|-----------|-------------------|-----------|---------------|
| Lab #: | 203529 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09567-06 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 138630 |
| Units: | ug/L | Analyzed: | 05/28/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC443848

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Benzene | 10.00 | 9.670 | 97 | 80-120 |
| Toluene | 10.00 | 10.48 | 105 | 80-120 |
| Ethylbenzene | 10.00 | 10.81 | 108 | 80-120 |
| m,p-Xylenes | 10.00 | 10.51 | 105 | 80-120 |
| o-Xylene | 10.00 | 10.73 | 107 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 96 | 60-146 |
| Bromofluorobenzene (PID) | 101 | 65-143 |

Type: BSD Lab ID: QC443849

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Benzene | 10.00 | 9.413 | 94 | 80-120 | 3 | 20 |
| Toluene | 10.00 | 10.19 | 102 | 80-120 | 3 | 20 |
| Ethylbenzene | 10.00 | 10.47 | 105 | 80-120 | 3 | 20 |
| m,p-Xylenes | 10.00 | 9.867 | 99 | 80-120 | 6 | 20 |
| o-Xylene | 10.00 | 10.14 | 101 | 80-120 | 6 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 91 | 60-146 |
| Bromofluorobenzene (PID) | 94 | 65-143 |

RPD= Relative Percent Difference

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203529 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 138588 |
| Units: | ug/L | Received: | 05/23/08 |
| Diln Fac: | 1.000 | Prepared: | 05/27/08 |

Field ID: SS123(F4)-GGW-23.0 Sampled: 05/22/08
 Type: SAMPLE Analyzed: 05/30/08
 Lab ID: 203529-004 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 54 Y | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 82 | 63-130 |

Field ID: SS123(F6)-GGW-24.0 Sampled: 05/23/08
 Type: SAMPLE Analyzed: 05/30/08
 Lab ID: 203529-010 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 106 | 63-130 |

Field ID: MW-4(SS123)-GGW-24.0 Sampled: 05/23/08
 Type: SAMPLE Analyzed: 05/30/08
 Lab ID: 203529-015 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 104 | 63-130 |

Type: BLANK Analyzed: 05/28/08
 Lab ID: QC443665 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 96 | 63-130 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203529 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC443666 | Batch#: | 138588 |
| Matrix: | Water | Prepared: | 05/27/08 |
| Units: | ug/L | Analyzed: | 05/28/08 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 2,106 | 84 | 61-120 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 107 | 63-130 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|---------------------------------------|-------------------|-----------|---------------|
| Lab #: | 203529 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 138588 |
| MSS Lab ID: | 203539-014 | Sampled: | 05/23/08 |
| Matrix: | Water | Received: | 05/23/08 |
| Units: | ug/L | Prepared: | 05/27/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/28/08 |

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC443667

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|-------------|----------|--------|
| Diesel C10-C24 | 163,500 | 2,500 | 121,800 >LR | -1671 NM | 58-126 |

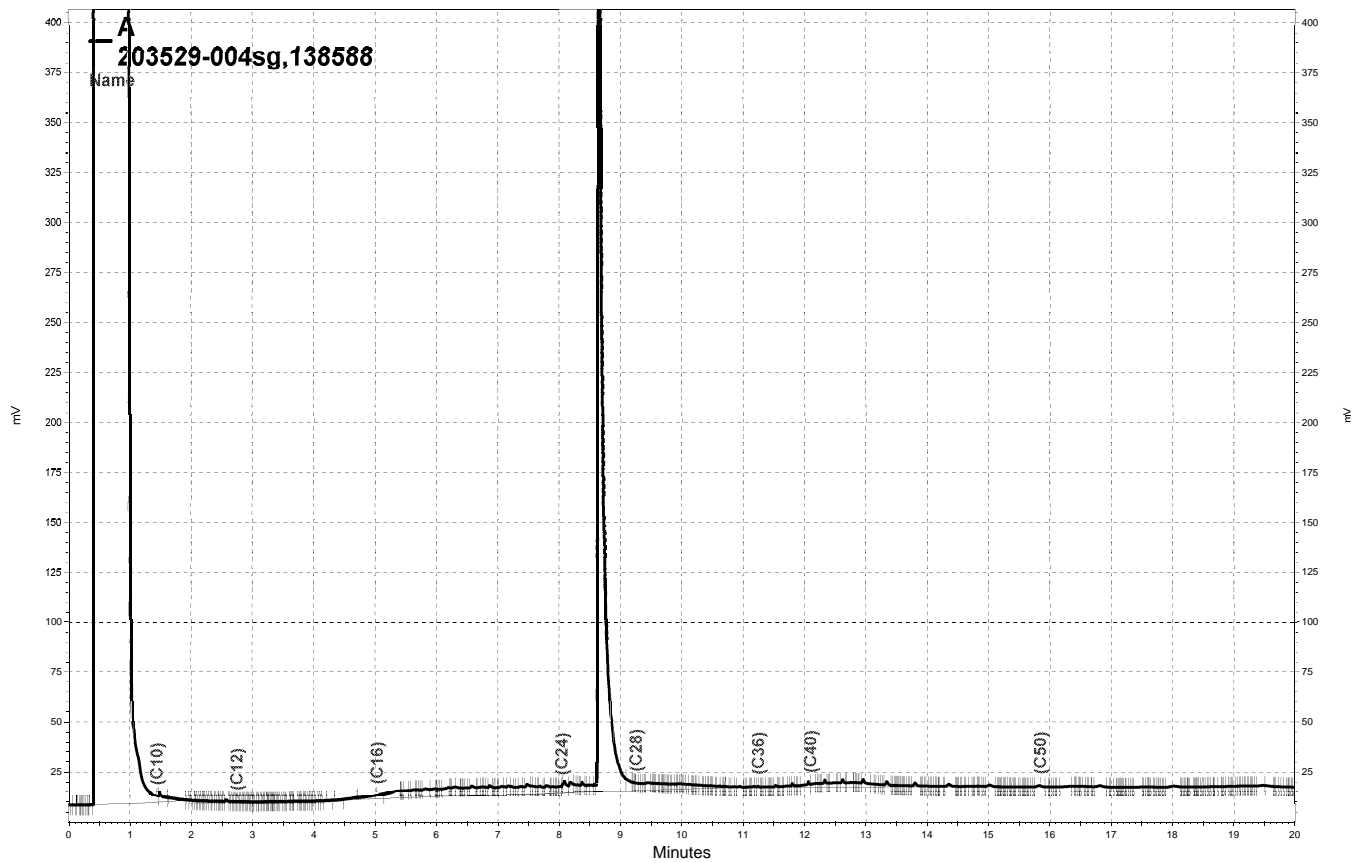
| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 10 * | 63-130 |

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC443668

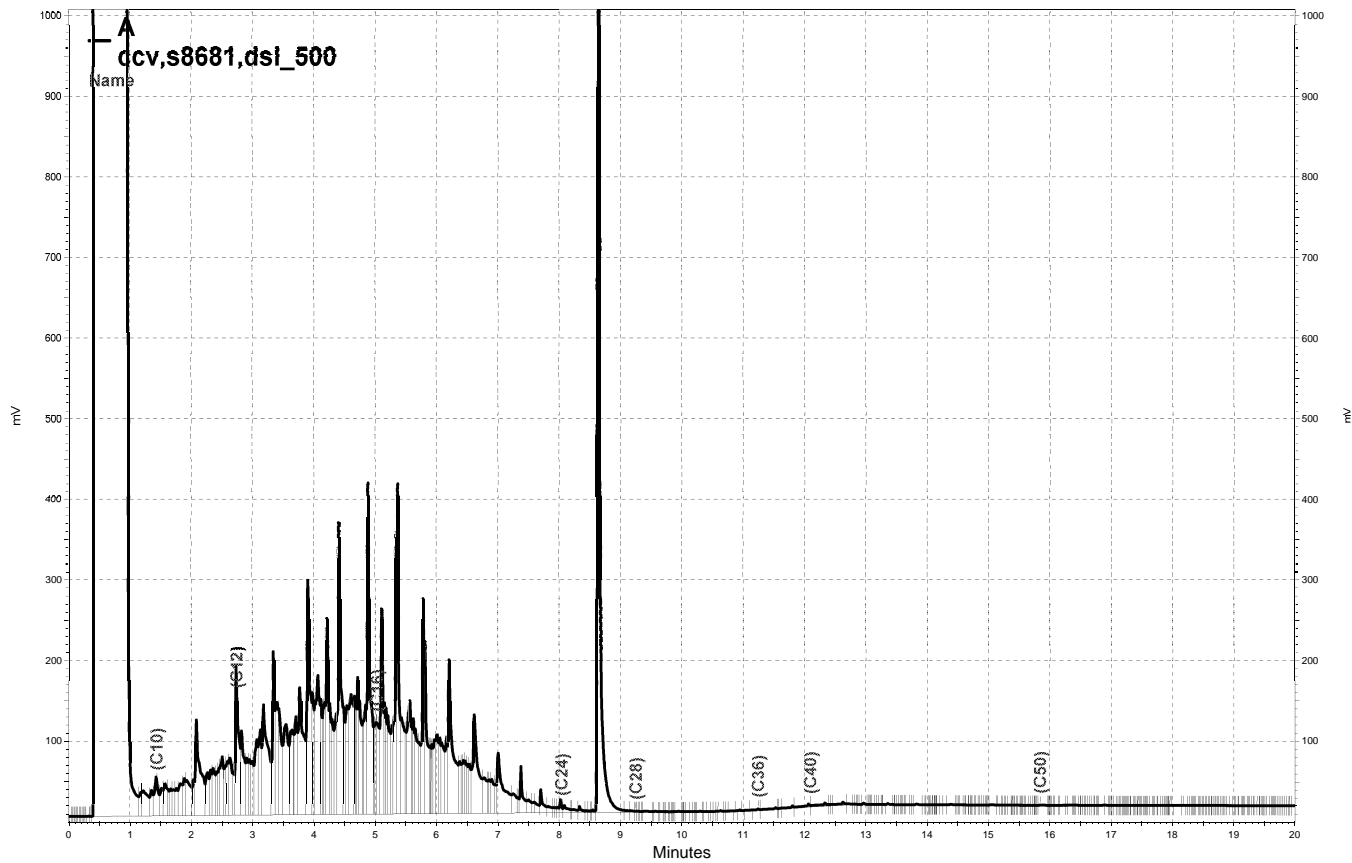
| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|-------------|----------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 100,300 >LR | -2529 NM | 58-126 | NC | 31 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 14 * | 63-130 |

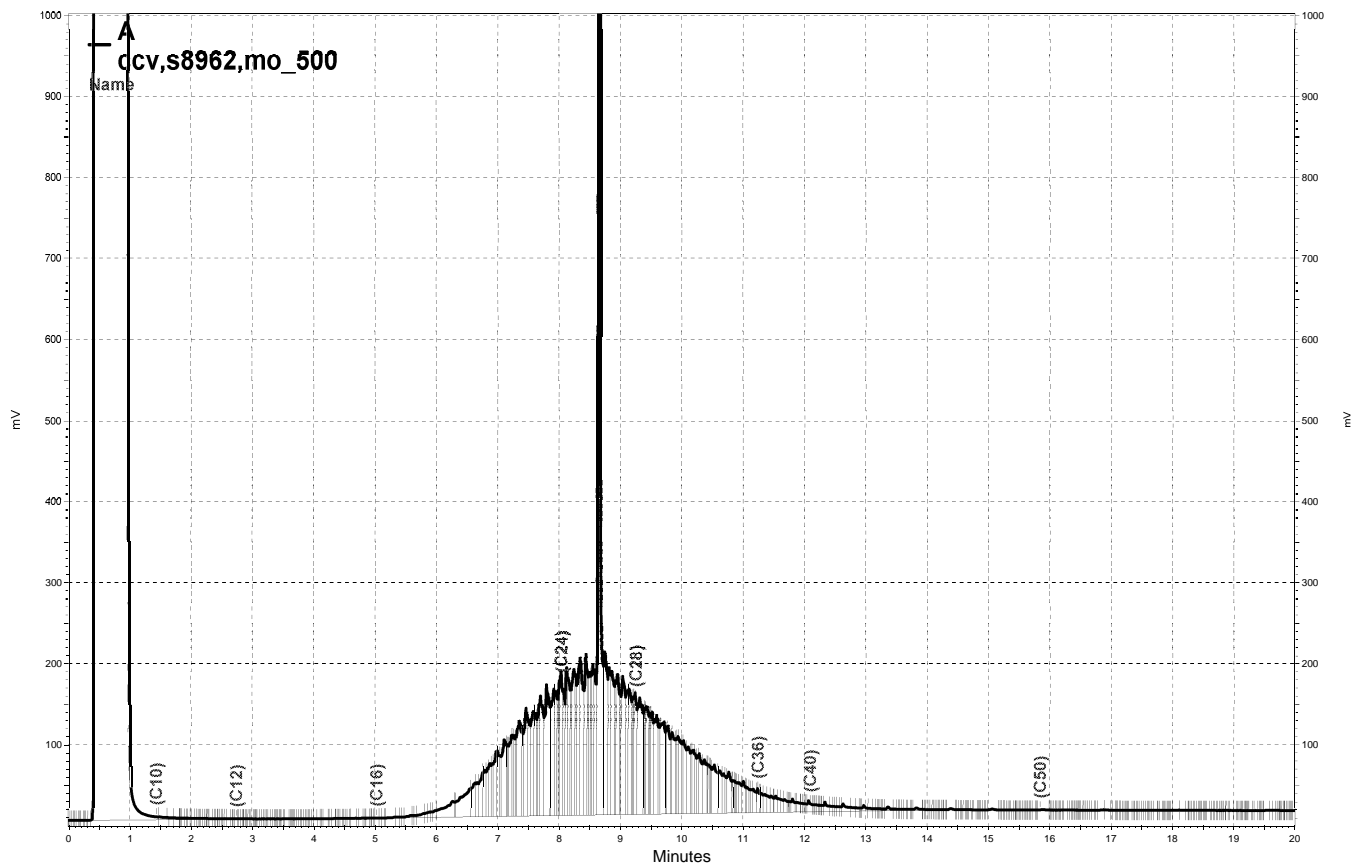
*= Value outside of QC limits; see narrative
 NC= Not Calculated
 NM= Not Meaningful: Sample concentration > 4X spike concentration
 >LR= Response exceeds instrument's linear range
 RPD= Relative Percent Difference



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\150a029, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\148a057, A



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\148a058, A

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203529 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Matrix: | Soil | Sampled: | 05/22/08 |
| Units: | mg/Kg | Received: | 05/23/08 |
| Basis: | as received | Prepared: | 05/29/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/30/08 |
| Batch#: | 138696 | | |

Field ID: SS123(F4)-13.0
Type: SAMPLE

Lab ID: 203529-001
Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 21 Y | 1.0 |
| Motor Oil C24-C36 | 78 | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 77 | 48-128 |

Field ID: SS123(F4)-18.0
Type: SAMPLE

Lab ID: 203529-002
Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 17 Y | 1.0 |
| Motor Oil C24-C36 | 76 | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 73 | 48-128 |

Field ID: SS123(F4)-5.5
Type: SAMPLE

Lab ID: 203529-003
Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | 17 Y | 0.99 |
| Motor Oil C24-C36 | 140 | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 81 | 48-128 |

Field ID: SS123(F6)-6.0
Type: SAMPLE

Lab ID: 203529-005
Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | 3.1 Y | 0.99 |
| Motor Oil C24-C36 | 17 | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 61 | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203529 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Matrix: | Soil | Sampled: | 05/22/08 |
| Units: | mg/Kg | Received: | 05/23/08 |
| Basis: | as received | Prepared: | 05/29/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/30/08 |
| Batch#: | 138696 | | |

Field ID: SS123(F6)-12.0
Type: SAMPLE

Lab ID: 203529-006
Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 76 | 48-128 |

Field ID: SS123(F6)-17.0
Type: SAMPLE

Lab ID: 203529-007
Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 72 | 48-128 |

Field ID: SS123(F6)-23.0
Type: SAMPLE

Lab ID: 203529-008
Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | ND | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 78 | 48-128 |

Field ID: SS123(F6)-27.0
Type: SAMPLE

Lab ID: 203529-009
Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 66 | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Total Extractable Hydrocarbons

| | | | |
|-----------|-------------------|-----------|--------------|
| Lab #: | 203529 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Matrix: | Soil | Sampled: | 05/22/08 |
| Units: | mg/Kg | Received: | 05/23/08 |
| Basis: | as received | Prepared: | 05/29/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/30/08 |
| Batch#: | 138696 | | |

Field ID: MW-4(SS123)-5.0 Lab ID: 203529-011
 Type: SAMPLE Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | 5.6 Y | 0.99 |
| Motor Oil C24-C36 | 51 | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 71 | 48-128 |

Field ID: MW-4(SS123)-7.0 Lab ID: 203529-012
 Type: SAMPLE Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 64 | 48-128 |

Field ID: MW-4(SS123)-12.0 Lab ID: 203529-013
 Type: SAMPLE Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | ND | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 58 | 48-128 |

Field ID: MW-4(SS123)-18.0 Lab ID: 203529-014
 Type: SAMPLE Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 72 | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203529 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Matrix: | Soil | Sampled: | 05/22/08 |
| Units: | mg/Kg | Received: | 05/23/08 |
| Basis: | as received | Prepared: | 05/29/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/30/08 |
| Batch#: | 138696 | | |

Type: BLANK
 Lab ID: QC444133

Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 68 | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203529 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC444134 | Batch#: | 138696 |
| Matrix: | Soil | Prepared: | 05/29/08 |
| Units: | mg/Kg | Analyzed: | 05/30/08 |
| Basis: | as received | | |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 49.60 | 34.71 | 70 | 54-126 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 74 | 48-128 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203529 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 138696 |
| MSS Lab ID: | 203532-001 | Sampled: | 05/22/08 |
| Matrix: | Soil | Received: | 05/23/08 |
| Units: | mg/Kg | Prepared: | 05/29/08 |
| Basis: | as received | Analyzed: | 05/30/08 |
| Diln Fac: | 1.000 | | |

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC444135

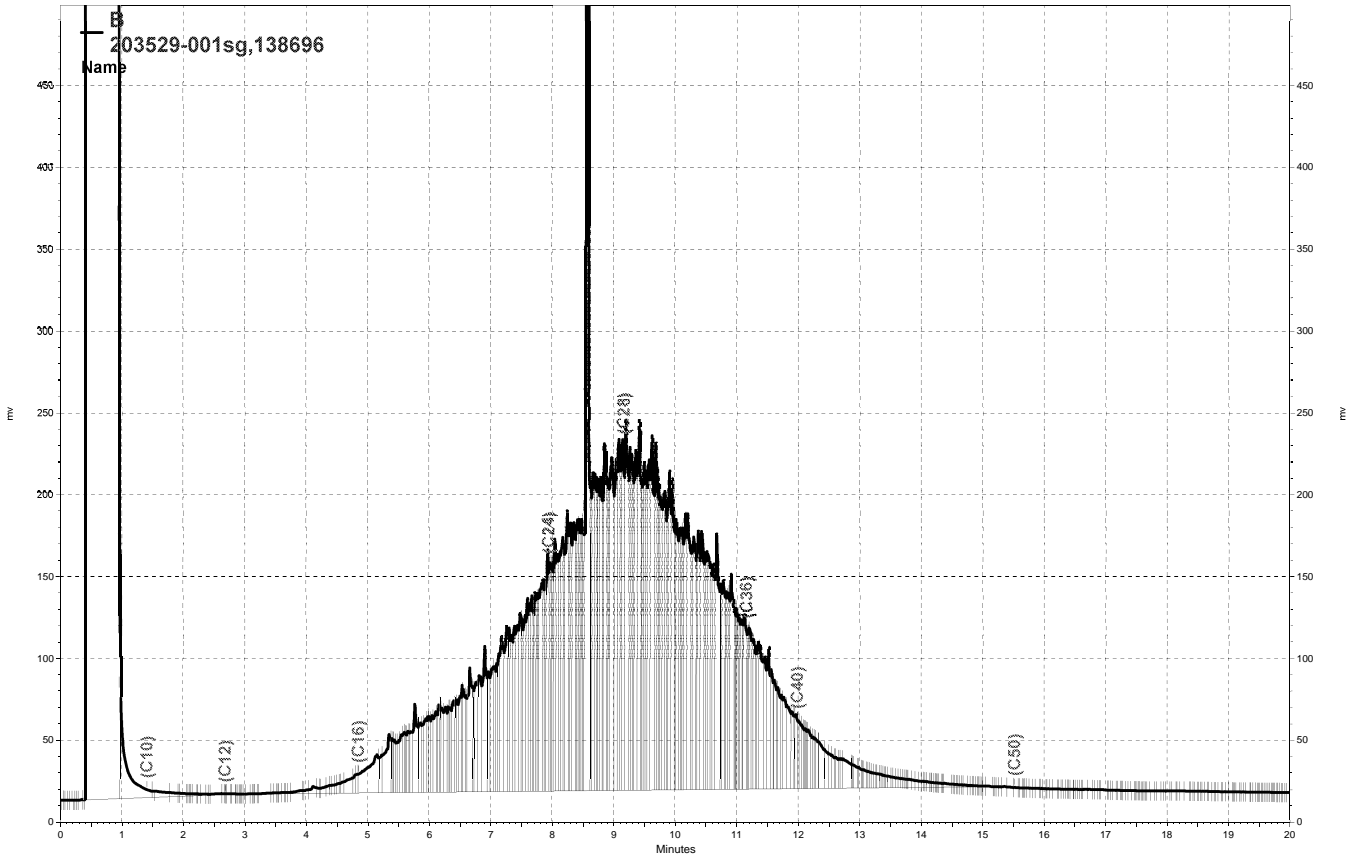
| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | 0.1907 | 49.71 | 38.03 | 76 | 34-144 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 81 | 48-128 |

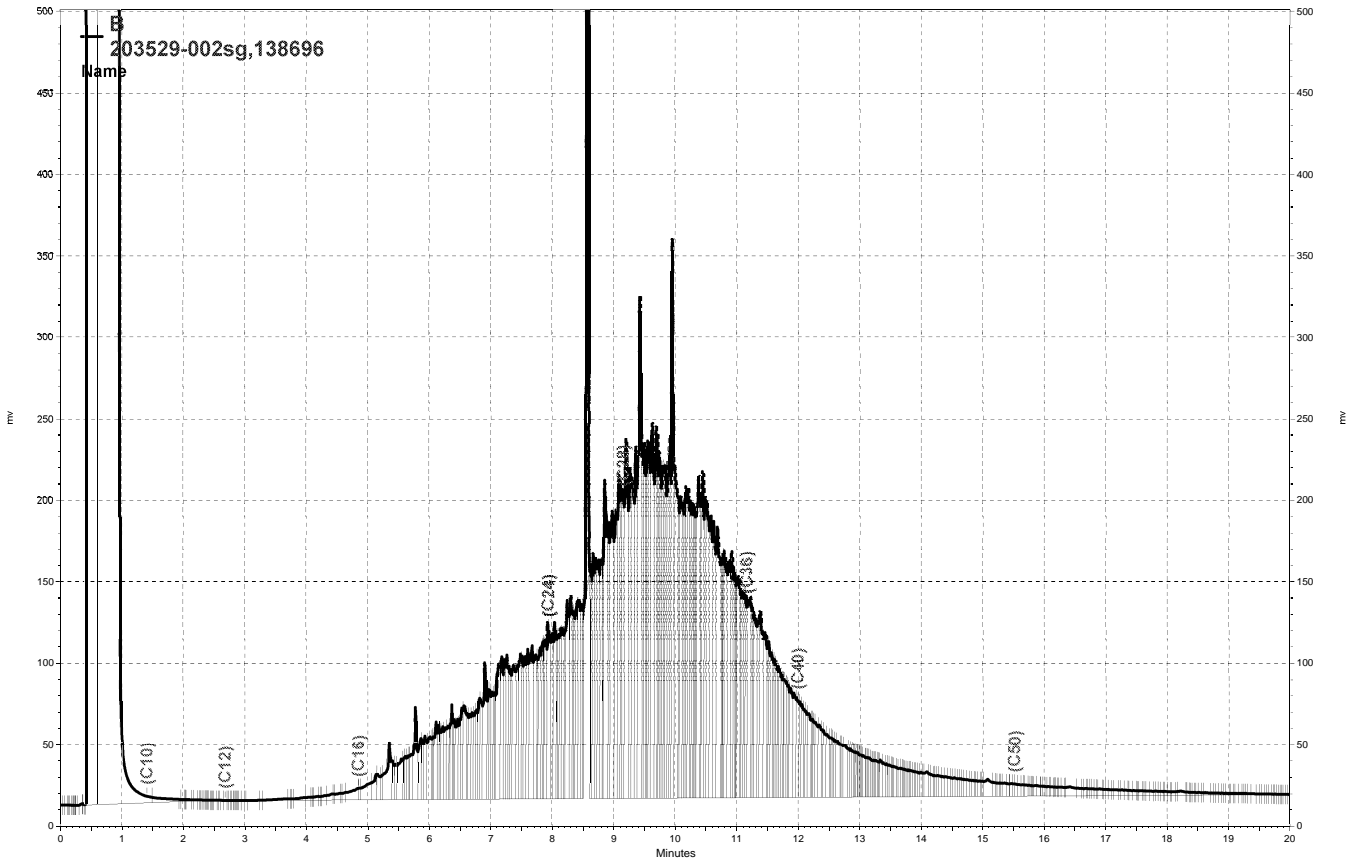
Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC444136

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 49.58 | 43.27 | 87 | 34-144 | 13 | 47 |

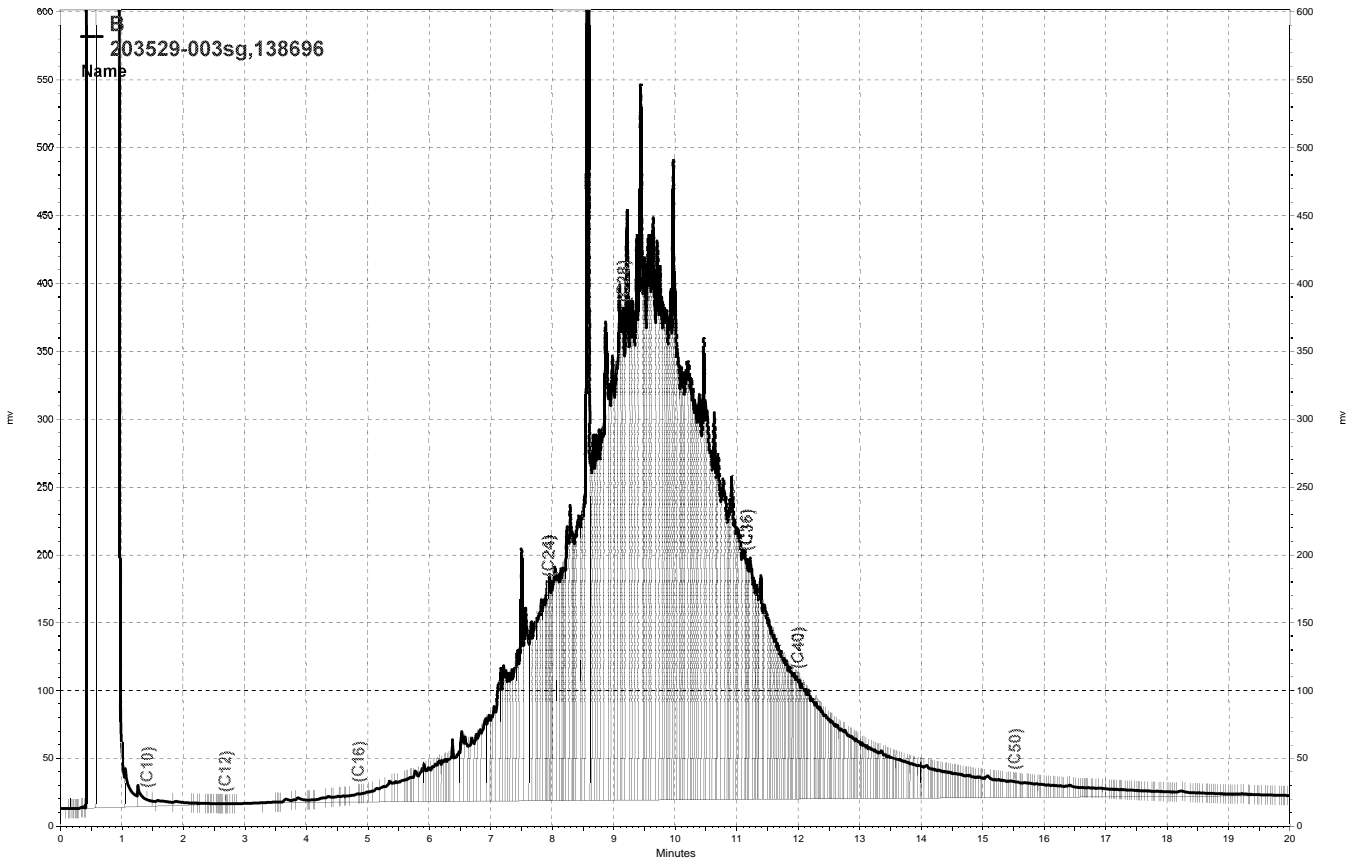
| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 93 | 48-128 |



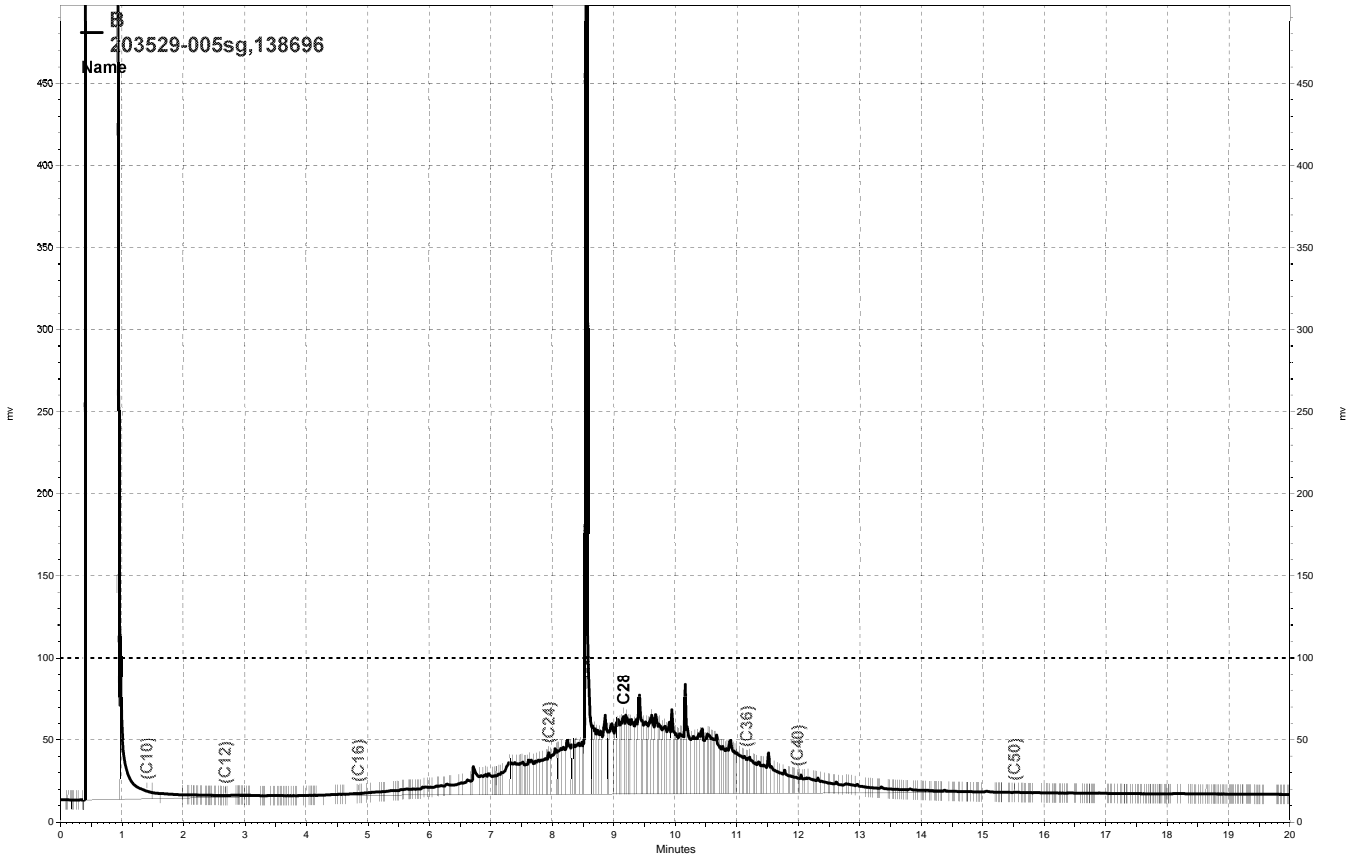
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\149b124, B



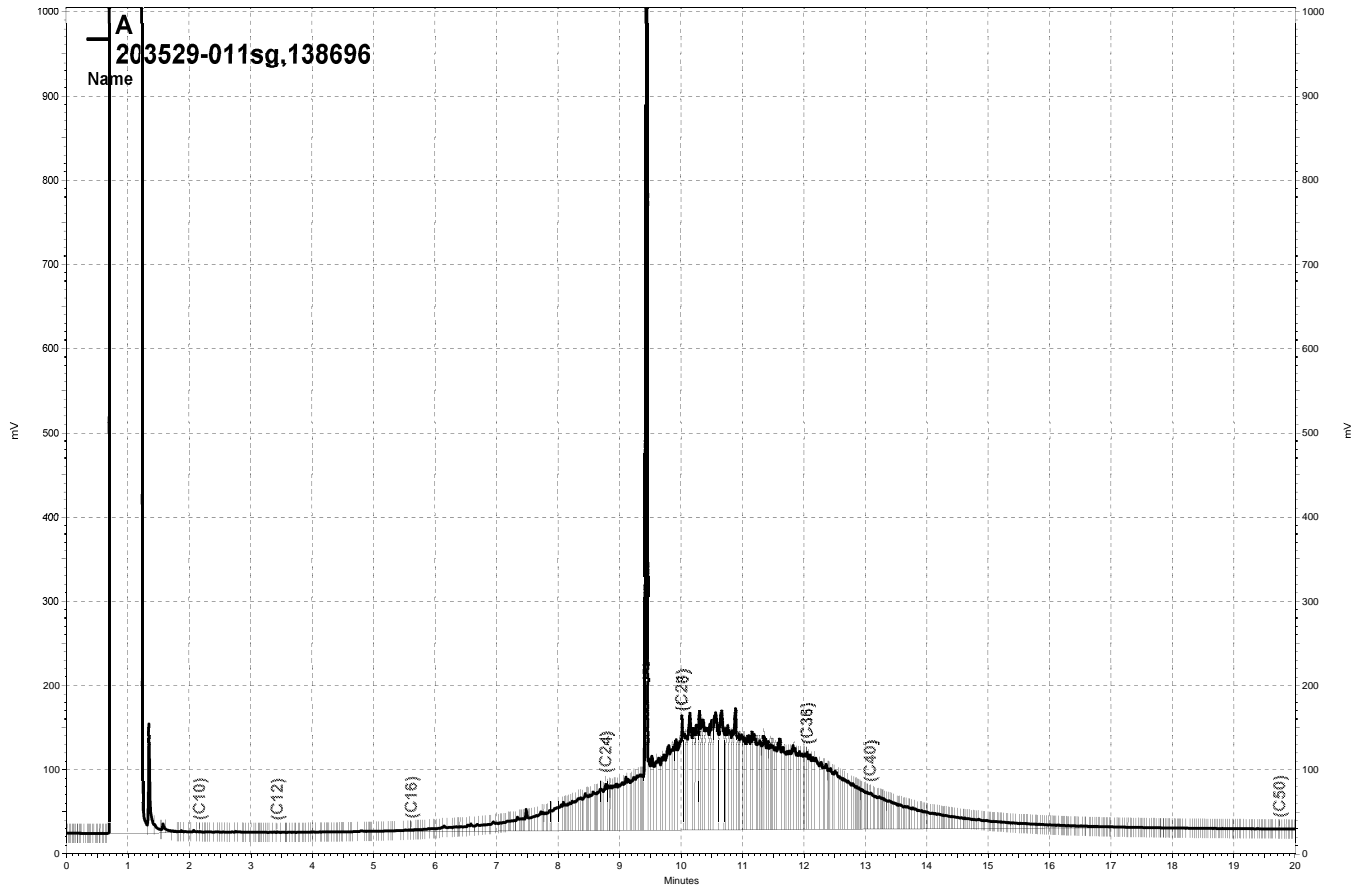
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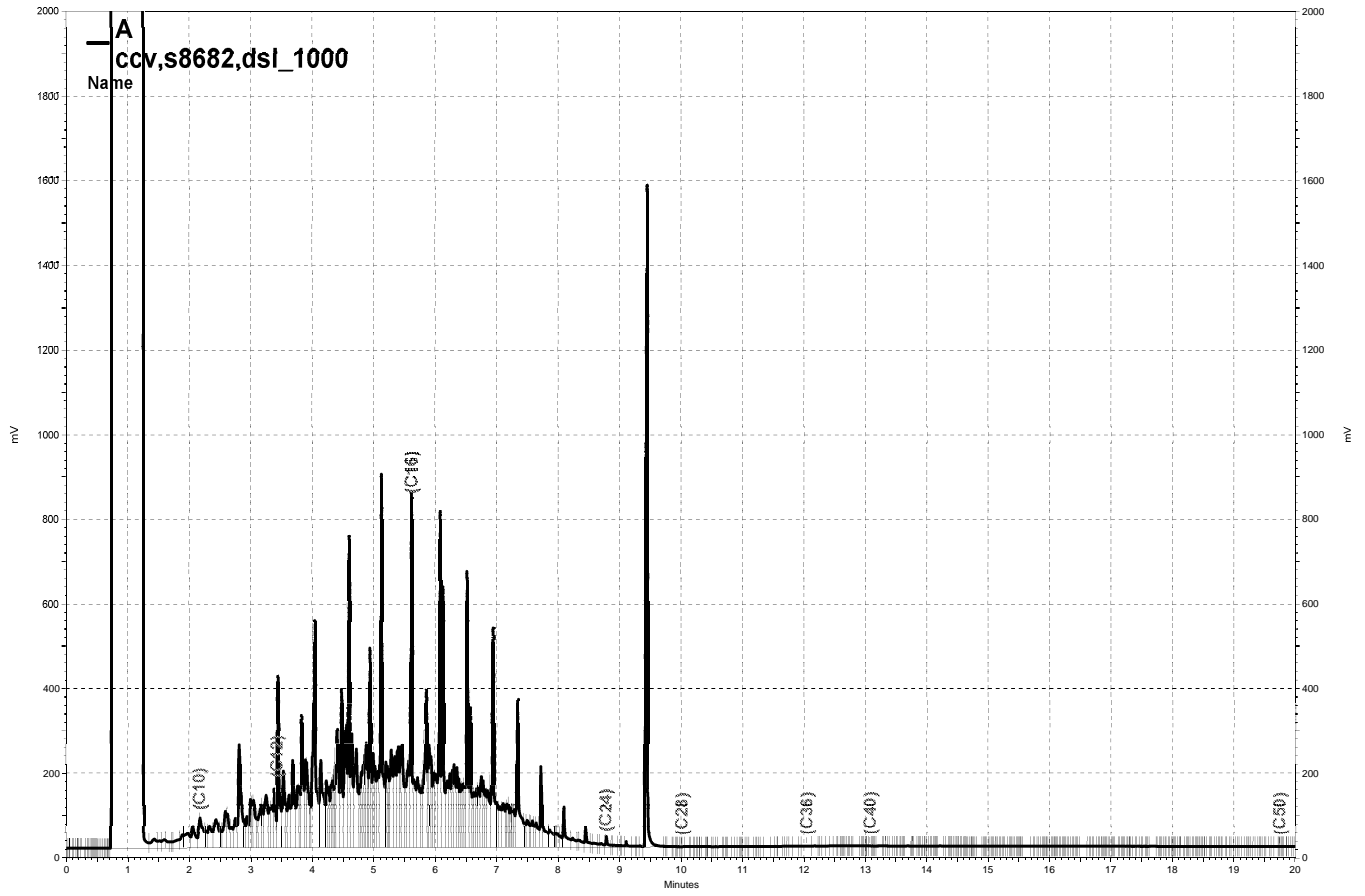
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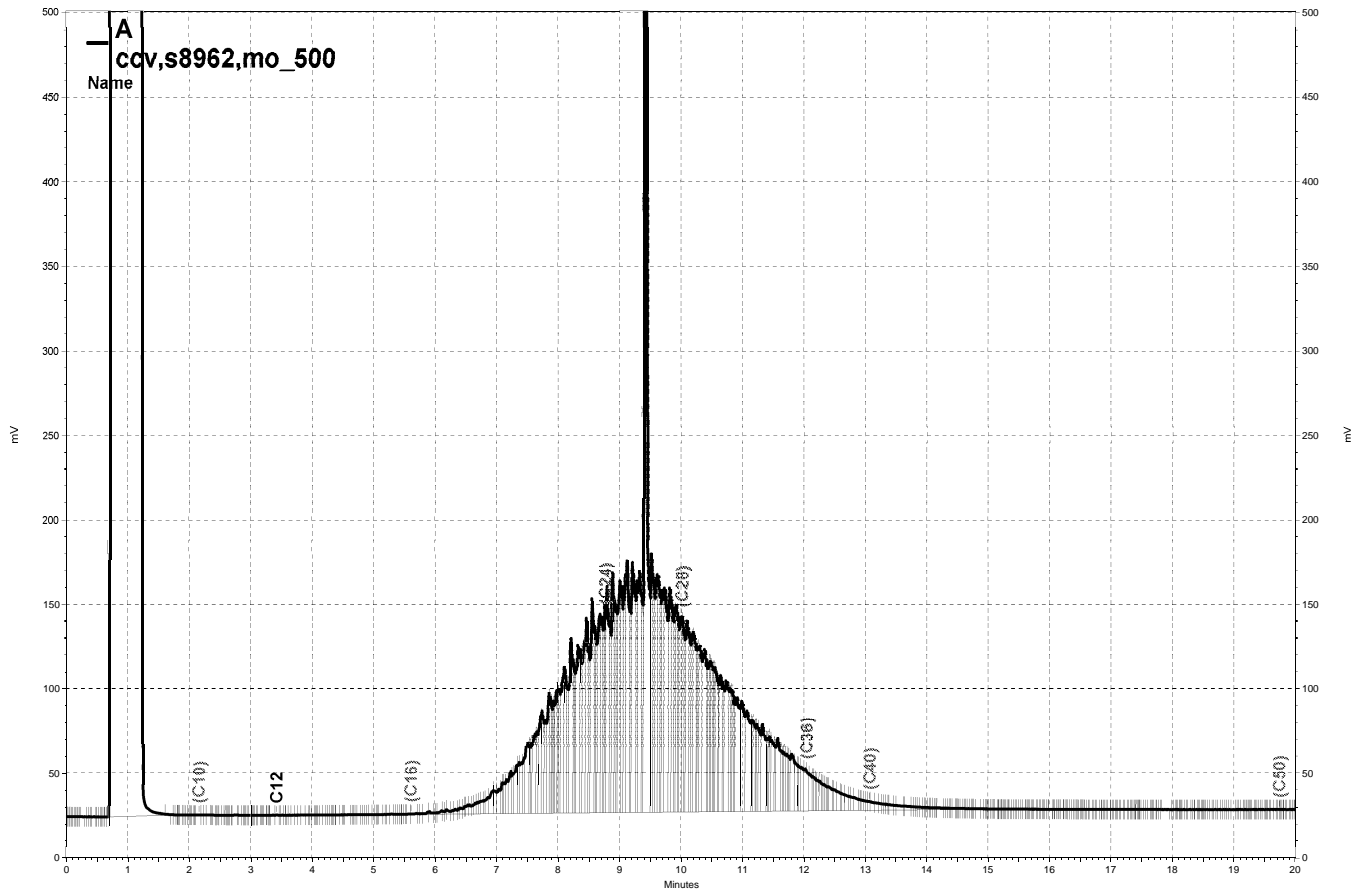
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\149b123, B



— \\Lims\gdrive\ezchrom\Projects\GC11A\Data\150a047, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\150a041, A



\\Lims\gdrive\ezchrom\Projects\GC11A\Data\150a042, A

Total Extractable Hydrocarbons

| | | | |
|-----------|-------------------|-----------|--------------|
| Lab #: | 203529 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Field ID: | SS123(F4)-18.0 | Sampled: | 05/22/08 |
| Units: | ug/L | Received: | 05/23/08 |
| Diln Fac: | 1.000 | Prepared: | 05/29/08 |
| Batch#: | 138702 | | |

| | | | |
|---------|-----------------|-----------------|-----------|
| Type: | SAMPLE | Analyzed: | 06/02/08 |
| Lab ID: | 203529-002 | Cleanup Method: | EPA 3630C |
| Matrix: | WET DI Leachate | | |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 100 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 81 | 63-130 |

| | | | |
|---------|----------|-----------------|-----------|
| Type: | BLANK | Analyzed: | 06/01/08 |
| Lab ID: | QC444166 | Cleanup Method: | EPA 3630C |
| Matrix: | Water | | |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 100 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 77 | 63-130 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|---------------|
| Lab #: | 203529 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 138702 |
| Units: | ug/L | Prepared: | 05/29/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/02/08 |

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC444167

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 2,208 | 88 | 61-120 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 104 | 63-130 |

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC444168



| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 1,762 | 70 | 61-120 | 22 | 29 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 98 | 63-130 |

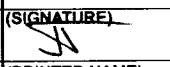
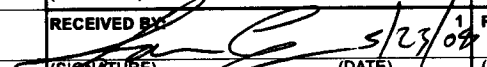
RPD= Relative Percent Difference

203529

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

| | | | | | |
|--|--------------------------------|--------------|---|----------------------------|---------------------------------|
| SAMPLE COLLECTOR:  1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500 Fax: (510) 652-2246 | PROJECT NO.: 001-09567-06 | SECTION NO.: | DATE: 5/23/08 | SAMPLER'S INITIALS: TRC | SERIAL NO.: Nº 204225 |
| | PROJECT NAME: Hanson Radium | | SAMPLER (Signature):  | | |

| SAMPLE ID. | DATE | TIME | SAMPLE | | ANALYSES | | | | | | | | | | | | REMARKS | | |
|------------|------|-------|----------------|-------------------|----------|-------|------------------|-------------------|------------------|---------------------|---------------------|------------------------|----------------|----------|-------|------|---------|-----|------------------------|
| | | | Lab Sample No. | No. of Containers | TYPE | | TPHd (EPA 8015M) | TPHmo (EPA 8015M) | TPHg (EPA 8015M) | BTEX (EPA 8021/802) | VOCs (EPA 8260/624) | Metals (EPA 6010/7000) | TPHd TPHmo WET | Standard | RUSH: | HOLD | | TAT | |
| | | | | | Soil | Water | | | | | | | | | | | | | |
| 1 | 5/22 | 11:15 | 1 | X | | | X | X | | | | | | | | | | | -Preform Silica gel |
| 2 | 5/22 | 11:25 | 1 | X | | | X | X | | | | | | | | | | | Cleanup for |
| 3 | 5/22 | 10:35 | 1 | X | | | X | X | | | | | | | | | | | TPhd + TPHmo Water |
| 4 | 5/22 | 12:15 | 4 | | X | | X | X | X | | | | | | | | | | Samples |
| 5 | 5/22 | 2:10 | 1 | X | | | X | X | | | | | | | | | | | - Preform Silica gel |
| 6 | 5/22 | 2:25 | 1 | X | | | X | X | | | | | | | | | | | Cleanup for all |
| 7 | 5/22 | 2:45 | 1 | X | | | X | X | | | | | | | | | | | Soil TPHd + TPHmo |
| 8 | 5/22 | 2:55 | 1 | X | | | X | X | | | | | | | | | | | - For TPHd + TPHmo WET |
| 9 | 5/22 | 3:10 | 1 | X | | | X | X | | | | | | | | | | | Samples use the WET |
| 10 | 5/23 | 8:30 | 4 | | X | | X | X | X | | | | | | | | | | method and use |
| 11 | 5/22 | 4:00 | 1 | X | | | X | X | | | | | | | | | | | DI as an extractant |
| 12 | 5/22 | 16:10 | 1 | X | | | X | X | | | | | | | | | | | |
| 13 | 5/22 | 14:15 | 1 | X | | | X | X | | | | | | | | | | | |
| 14 | 5/22 | 16:20 | 1 | X | | | X | X | | | | | | | | | | | |
| 15 | 5/23 | 9:00 | 4 | | X | | X | X | X | | | | | | | | | | |

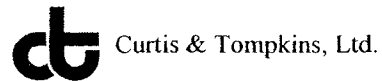
| | | | | | | |
|---|-----------------------------|---|--|---|--|-----------------------------|
| SAMPLE RECEIPT: <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Cold <input checked="" type="checkbox"/> On Ice <input type="checkbox"/> Ambient Preservative Correct? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | Cooler Temp: Cooler No.: | METHOD OF SHIPMENT: Hand | RELINQUISHED BY: (SIGNATURE)  (DATE) 5/23 (TIME) 12:15 | 1 RELINQUISHED BY: (SIGNATURE) (DATE) (TIME) | 2 RELINQUISHED BY: (SIGNATURE) (DATE) (TIME) | 3 |
| | FAX COC CONFIRMATION TO: | | (PRINTED NAME) J. Niolo (COMPANY) | (PRINTED NAME) (COMPANY) | (PRINTED NAME) (COMPANY) | (PRINTED NAME) (COMPANY) |
| | FAX RESULTS TO: | | RECEIVED BY:  (DATE) 5/23/08 (TIME) 12:15 | RECEIVED BY: (SIGNATURE) (DATE) (TIME) | 2 RECEIVED BY (LABORATORY): (SIGNATURE) (DATE) (TIME) | |
| SEND HARD COPY TO: | | (PRINTED NAME) S. Melans (COMPANY) C+T | (PRINTED NAME) (COMPANY) | (PRINTED NAME) (COMPANY) | (PRINTED NAME) (COMPANY) | (PRINTED NAME) (COMPANY) |

DRAFT

AOC 8 - Soil and Grab Groundwater Sample Matrix
 Hanson Radum
 3000 Busch Road, Pleasanton, California

| C&T Login Number | C&T Sample ID | Original LFR Sample ID | Revised LFR Sample ID | Date Sample Collected | Matrix | TPHd/mo w/silica gel clean up | C&T | DI-WEI TPHd/mo w/silica gel clean up | C&T | BTEX (ggw only) | C&T |
|------------------|---------------|------------------------|-----------------------|-----------------------|--------|-------------------------------|-----|--------------------------------------|-----|-----------------|-----|
| 203529 | 3 | SS123-F4-5.5 | SS123(F4)-5.5 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 4 | SS123-F4-23 | SS123(F4)-GGW-23.0 | 5/22/2008 | GGW | X | | | | X | |
| 203529 | 5 | SS123-F6-6.0 | SS123(F6)-6.0 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 6 | SS123-F6-12 | SS123(F6)-12.0 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 7 | SS123-F6-17 | SS123(F6)-17.0 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 8 | SS123-F6-23 | SS123(F6)-23.0 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 9 | SS123-F6-27 | SS123(F6)-27.0 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 10 | SS123-F6-24 | SS123(F6)-GGW-24.0 | 5/23/2008 | GGW | X | | | | X | |
| 203529 | 11 | MW-4-5 | MW-4(SS123)-5.0 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 12 | MW-4-7 | MW-4(SS123)-7.0 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 13 | MW-4-12 | MW-4(SS123)-12.0 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 14 | MW-4-18 | MW-4(SS123)-18.0 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 15 | MW-4-24 | MW-4(SS123)-GGW-24.0 | 5/23/2008 | GGW | X | | | | X | |

COOLER RECEIPT CHECKLIST



Login # 203529 Date Received 5/23/08 Number of coolers 1
Client LFR Project HANSON RADUM

Date Opened 5/23/08 By (print) M. Villanueva (sign) [Signature]
Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

- 1. Did cooler come with a shipping slip (airbill, etc)? YES NO
2A. Were custody seals present? ... YES (circle) on cooler on samples NO
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)
7. If required, was sufficient ice used? Samples should be < or = 6°C YES NO N/A
8. Were Method 5035 sampling containers present? YES NO
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are samples in the appropriate containers for indicated tests? YES NO
11. Are sample labels present, in good condition and complete? YES NO
12. Do the sample labels agree with custody papers? YES NO
13. Was sufficient amount of sample sent for tests requested? YES NO
14. Are the samples appropriately preserved? YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? YES NO N/A
16. Was the client contacted concerning this sample delivery? YES NO

COMMENTS

[Blank lines for comments]



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 203530
ANALYTICAL REPORT

LFR Levine Fricke
1900 Powell Street
Emeryville, CA 94608

Project : 001-09567
Location : Hanson Radum
Level : II

Table with 2 columns: Sample ID, Lab ID. Rows include MW-1(SS123)-5.0, MW-1(SS123)-13.0, MW-1(SS123)-63.0, MW-1(SS123)-79.0.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: [Handwritten Signature]
Project Manager

Date: 06/03/2008

Signature: [Handwritten Signature]
Quality Assurance Director

Date: 06/06/2008

CASE NARRATIVE

Laboratory number: 203530
Client: LFR Levine Fricke
Project: 001-09567
Location: Hanson Radum
Request Date: 05/23/08
Samples Received: 05/23/08

This hardcopy data package contains sample and QC results for two soil samples, requested for the above referenced project on 05/23/08. The samples were received cold and intact. All data were e-mailed to Ron Goloubow on 06/03/08.

TPH-Extractables by GC (EPA 8015B) Soil:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) WET DI Leachate:

No analytical problems were encountered.

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203530 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Field ID: | MW-1(SS123)-5.0 | Batch#: | 138635 |
| Matrix: | Soil | Sampled: | 05/21/08 |
| Units: | mg/Kg | Received: | 05/23/08 |
| Basis: | as received | Prepared: | 05/28/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/29/08 |

Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 203530-001

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 7.8 Y | 1.0 |
| Motor Oil C24-C36 | 53 | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 81 | 48-128 |

Type: BLANK Cleanup Method: EPA 3630C
 Lab ID: QC443874

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 80 | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203530 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC443875 | Batch#: | 138635 |
| Matrix: | Soil | Prepared: | 05/28/08 |
| Units: | mg/Kg | Analyzed: | 05/29/08 |
| Basis: | as received | | |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 49.97 | 42.43 | 85 | 54-126 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 93 | 48-128 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203530 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 138635 |
| MSS Lab ID: | 203401-011 | Sampled: | 05/16/08 |
| Matrix: | Soil | Received: | 05/19/08 |
| Units: | mg/Kg | Prepared: | 05/28/08 |
| Basis: | as received | Analyzed: | 05/29/08 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC443876

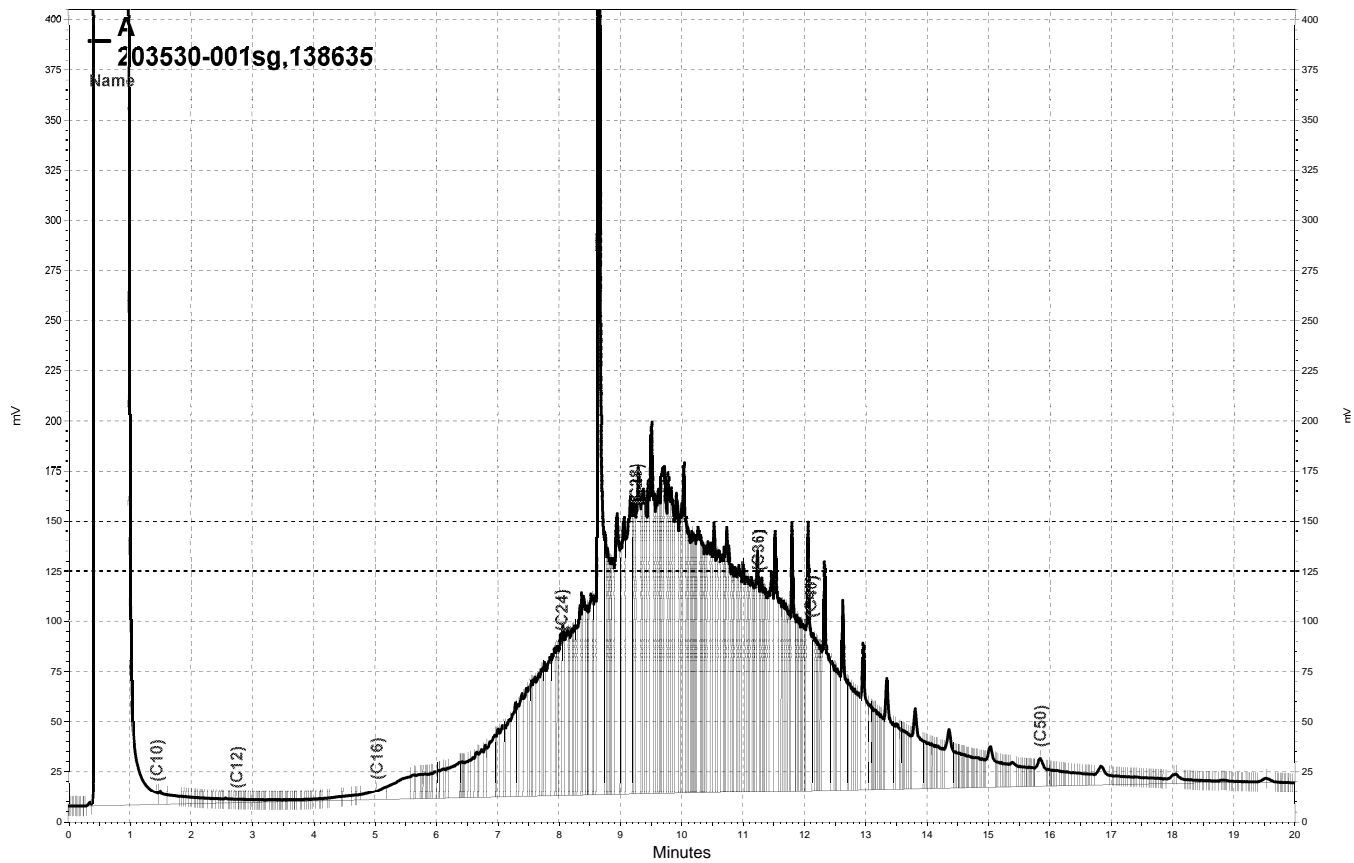
| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | 0.4544 | 49.97 | 45.89 | 91 | 34-144 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 87 | 48-128 |

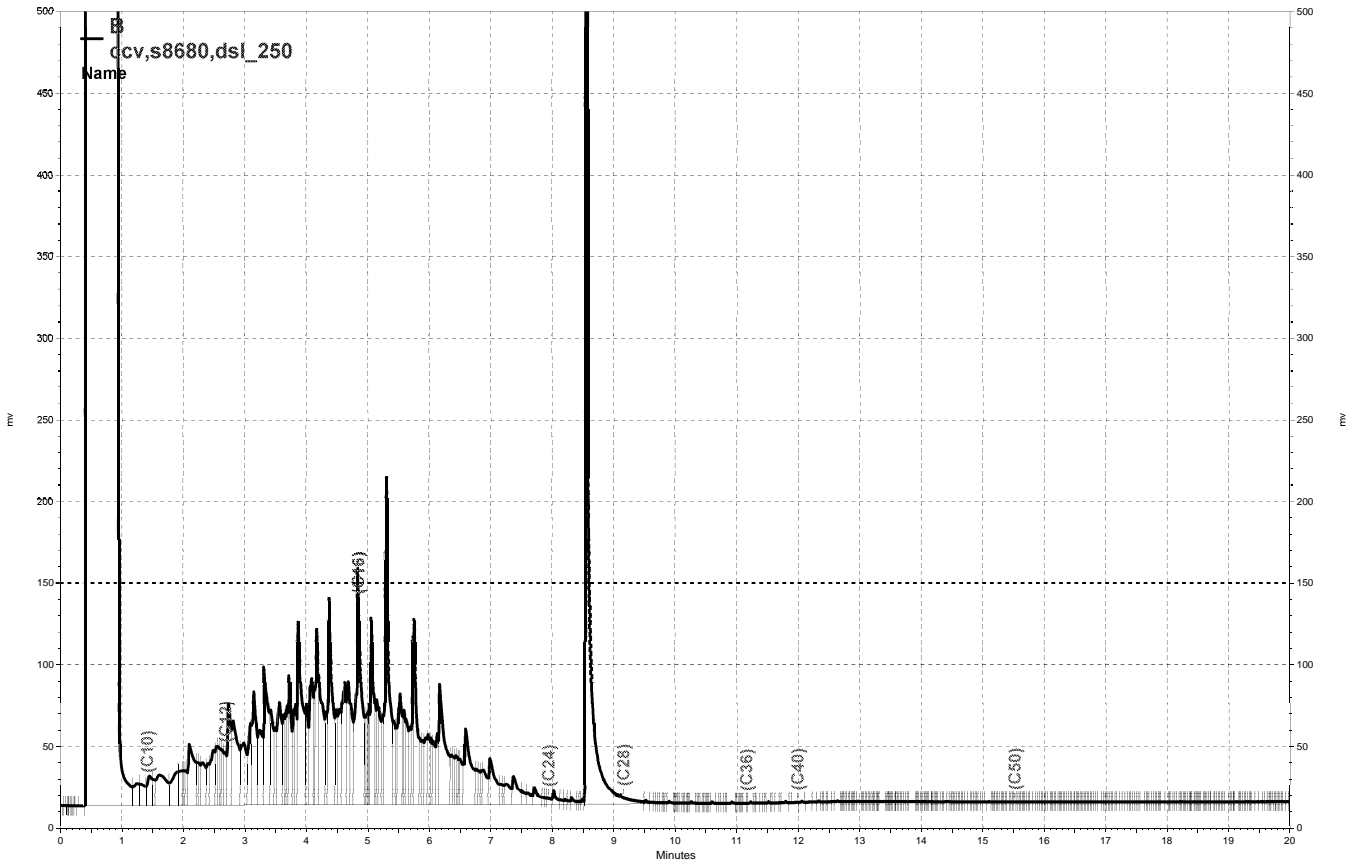
Type: MSD Lab ID: QC443877

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 49.96 | 64.63 | 128 | 34-144 | 34 | 47 |

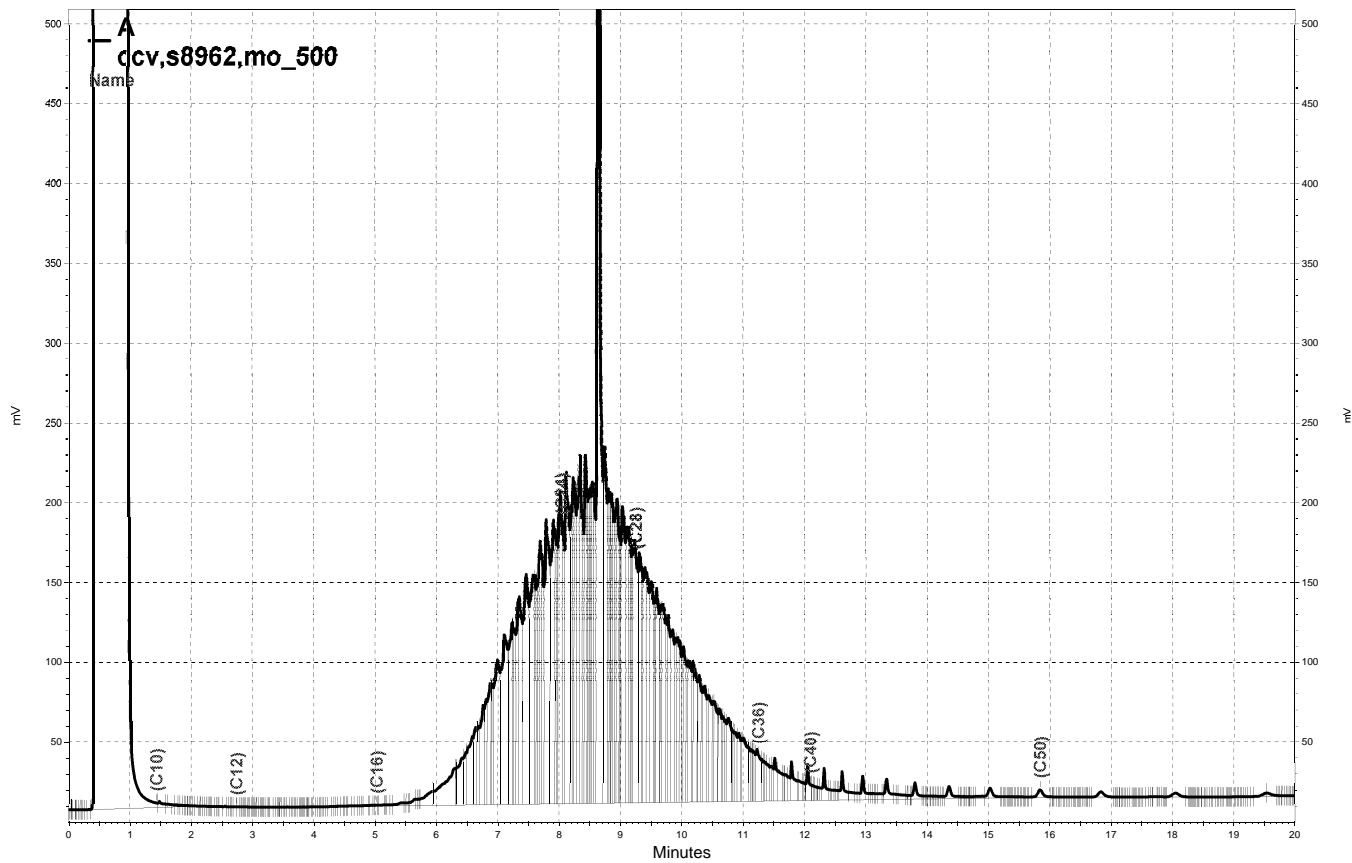
| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 124 | 48-128 |



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\150a011, A



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\149b060, B



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\150a004, A

Total Extractable Hydrocarbons

| | | | |
|-----------|-------------------|-----------|--------------|
| Lab #: | 203530 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Field ID: | MW-1(SS123)-13.0 | Sampled: | 05/21/08 |
| Units: | ug/L | Received: | 05/23/08 |
| Diln Fac: | 1.000 | Prepared: | 05/29/08 |
| Batch#: | 138702 | | |

| | | | |
|---------|-----------------|-----------------|-----------|
| Type: | SAMPLE | Analyzed: | 06/02/08 |
| Lab ID: | 203530-002 | Cleanup Method: | EPA 3630C |
| Matrix: | WET DI Leachate | | |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 100 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 100 | 63-130 |

| | | | |
|---------|----------|-----------------|-----------|
| Type: | BLANK | Analyzed: | 06/01/08 |
| Lab ID: | QC444166 | Cleanup Method: | EPA 3630C |
| Matrix: | Water | | |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 100 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 77 | 63-130 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203530 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 138702 |
| Units: | ug/L | Prepared: | 05/29/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/02/08 |

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC444167

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 2,208 | 88 | 61-120 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 104 | 63-130 |

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC444168

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 1,762 | 70 | 61-120 | 22 | 29 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 98 | 63-130 |

RPD= Relative Percent Difference

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Analytical Laboratory Since 1878

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CHAIN OF CUSTODY

Page _____ of _____

Analysis

C & T LOGIN #: 203530

Sampler: JJ

Project No.: 001-09567

Report To: Ron G (Sio) 501-1789

Project Name: Hanson, Radawi

Company: LFR, Inc.

Project P.O.:

Telephone: JJ (Sio) 316-6096

Turnaround Time: Standard

Fax:

| Lab No. | Sample ID. | Sampling Date Time | Matrix | | | # of Containers | Preservative | | | |
|---------|---------------|--------------------|--------|-------|-------|-----------------|--------------|--------------------------------|------------------|-----|
| | | | Soil | Water | Waste | | HCL | H ₂ SO ₄ | HNO ₃ | ICE |
| 1 | MW-1-SS-5.0 | 5/21 1420 | X | | | 1 | | | | X |
| 2 | MW-13-SS-13.0 | 5/21 1430 | X | | | 1 | | | | X |
| 3 | MW-1-SS-63.0 | 5/22 1045 | X | | | 1 | | | | X |
| 4 | MW-1-SS-79.0 | 5/22 1100 | X | | | 1 | | | | X |

| | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|------|
| X | TPH Diesel + motor oil - 8015 w/ Silica - gel cleanup [802] | | | | | | | | | |
| X | TPH diesel + motor oil w/ Silica - gel using WET method w/ 10% (split - sample) [1602] | | | | | | | | | |
| | | | | | | | | | | Hold |
| | | | | | | | | | | X |
| | | | | | | | | | | X |

Notes:

SAMPLE RECEIPT

Intact Cold

On Ice Ambient

Preservative Correct?

Yes No N/A

RELINQUISHED BY:

JJ 5/23 12-15

DATE / TIME

DATE / TIME

DATE / TIME

RECEIVED BY:

[Signature] 5/23/08 12:15

DATE / TIME

DATE / TIME

DATE / TIME

SIGNATURE

Table 1
AOC 8 - Soil and Grab Groundwater Sample Matrix
Hanson Radum
3000 Busch Road, Pleasanton, California

| C&T Login Number | C&T Sample ID | Original LFR Sample ID | Revised LFR Sample ID | Date Sample Collected | Matrix | TPHd/mo w/silica gel clean up | C&T | DI-WET TPHd/mo w/silica gel clean up | C&T | BTEX (ggw only) | C&T |
|------------------|---------------|------------------------|-----------------------|-----------------------|--------|-------------------------------|---------------|--------------------------------------|----------------|-----------------|-----|
| 203423 | 1 | F5-SS-5.0 | SS123(F5)-5.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 2 | F5-SS-10.0 | SS123(F5)-10.0 | 5/19/2008 | Soil | X | | X | | | |
| 203423 | 3 | F5-SS-15.0 | SS123(F5)-15.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 4 | F5-SS-18.0 | SS123(F5)-18.0 | 5/19/2008 | Soil | Hold | Take off hold | Hold | | | |
| 203423 | 5 | F5-SS-21.0 | SS123(F5)-21.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 6 | F5-SS-50.0 | SS123(F5)-50.0 | 5/19/2008 | Soil | Hold | Take off hold | | | | |
| 203423 | 7 | F5-SS-66.0 | SS123(F5)-66.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 8 | F5-GGW-25.0 | SS123(F5)-GGW-25.0 | 5/19/2008 | GGW | X | | | | X | |
| 203423 | 9 | MW-2-GGW-23.0 | MW-2(SS123)-GGW-23.0 | 5/20/2008 | GGW | X | | | | X | |
| 203423 | 10 | MW-2-SS-5.0 | MW-2(SS123)-5.0 | 5/20/2008 | Soil | X | | | | | |
| 203423 | 11 | MW-2-SS-10.0 | MW-2(SS123)-10.0 | 5/20/2008 | Soil | X | | | | | |
| 203423 | 12 | MW-2-SS-14.0 | MW-2(SS123)-14.0 | 5/20/2008 | Soil | X | | X | Pls analyze | | |
| 203423 | 13 | MW-2-SS-20.0 | MW-2(SS123)-20.0 | 5/20/2008 | Soil | X | | | Do not analyze | | |
| 203423 | 14 | MW-2-SS-65.0 | MW-2(SS123)-65.0 | 5/20/2008 | Soil | Hold | Take off hold | | | | |
| 203423 | 15 | MW-2-SS-74.0 | MW-2(SS123)-74.0 | 5/20/2008 | Soil | X | | | | | |
| 203423 | 16 | MW-2-SS-78.0 | MW-2(SS123)-78.0 | 5/20/2008 | Soil | Hold | Take off hold | | | | |
| 203557 | 1 | MW-2-GGW-75.0 | MW-2(SS123)-GGW-75.0 | 5/21/2008 | GGW | Hold | Take off hold | | | Hold | |
| 203557 | 2 | Equipment Blank | Equipment Blank | 5/21/2008 | GGW | Hold | | | | Hold | |
| 203530 | 1 | MW-1-SS-5.0 | MW-1(SS123)-5.0 | 5/21/2008 | Soil | X | | | | | |
| 203530 | 2 | MW-1-SS-13.0 | MW-1(SS123)-13.0 | 5/21/2008 | Soil | | Pls analyze | X | | | |
| 203530 | 3 | MW-1-SS-63.0 | MW-1(SS123)-63.0 | 5/22/2008 | Soil | Hold | Take off hold | Hold | Take off hold | | |
| 203530 | 4 | MW-1-SS-79.0 | MW-1(SS123)-79.0 | 5/22/2008 | Soil | Hold | Take off hold | | | | |
| TBD | 1 | - na - | MW-1(SS123)-50.0 | 5/22/2008 | Soil | | Pls analyze | | Pls analyze | | |
| 203533 | 1 | MW-1-GGW-18.0 | MW-1(SS123)-GGW-18.0 | 5/21/2008 | GGW | X | | | | X | |
| 203532 | 1 | MW-3-SS-5.0 | MW-3(SS123)-5.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 2 | MW-3-SS-10.0 | MW-3(SS123)-10.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 3 | MW-3-SS-15.0 | MW-3(SS123)-15.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 4 | MW-3-SS-20.0 | MW-3(SS123)-20.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 5 | MW-3-SS-25.0 | MW-3(SS123)-25.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 6 | MW-3-SS-30.0 | MW-3(SS123)-30.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 7 | MW-3-SS-35.0 | MW-3(SS123)-35.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 8 | MW-3-SS-42.0 | MW-3(SS123)-42.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 9 | MW-3-SS-47.0 | MW-3(SS123)-47.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 10 | MW-3-SS-55.0 | MW-3(SS123)-55.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203529 | 1 | SS123-F4-13 | SS123(F4)-13.0 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 2 | SS123-F4-18 | SS123(F4)-18.0 | 5/22/2008 | Soil | X | | X | | | |

COOLER RECEIPT CHECKLIST



Login # 203530 Date Received 5/23/08 Number of coolers 1
 Client LFR Project HANSON RODUM

Date Opened 5/23/08 By (print) M. Villanueva (sign) [Signature]
 Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)?..... YES NO
 Shipping info _____

2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received?..... YES NO

4. Were custody papers filled out properly (ink, signed, etc)?..... YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form)..... YES NO

6. Indicate the packing in cooler: (if other, describe) _____

Bubble Wrap Foam blocks Bags None

Cloth material Cardboard Styrofoam Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C YES NO N/A

Type of ice used: Wet Blue None Temp(°C) _____

Samples Received on ice & cold without a temperature blank

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
 If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened?..... YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples?..... YES NO N/A

16. Was the client contacted concerning this sample delivery?..... YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 203532
ANALYTICAL REPORT

LFR Levine Fricke
1900 Powell Street
Emeryville, CA 94608

Project : 001-09567
Location : Hanson Radium
Level : II

Table with 2 columns: Sample ID and Lab ID. Rows include MW-3(SS123)-5.0 through MW-3(SS123)-55.0.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: [Handwritten Signature]
Project Manager

Date: 06/02/2008

Signature: [Handwritten Signature]
Senior Program Manager

Date: 06/03/2008

CASE NARRATIVE

Laboratory number: 203532
Client: LFR Levine Fricke
Project: 001-09567
Location: Hanson Radum
Request Date: 05/23/08
Samples Received: 05/23/08

This hardcopy data package contains sample and QC results for four soil samples, requested for the above referenced project on 05/23/08. The samples were received cold and intact. All data were e-mailed to Ron Goloubow on 06/02/08.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Total Extractable Hydrocarbons

| | | | |
|-----------|-------------------|-----------|--------------|
| Lab #: | 203532 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Matrix: | Soil | Sampled: | 05/22/08 |
| Units: | mg/Kg | Received: | 05/23/08 |
| Basis: | as received | Prepared: | 05/29/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/30/08 |
| Batch#: | 138696 | | |

Field ID: MW-3(SS123)-5.0 Lab ID: 203532-001
 Type: SAMPLE Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | ND | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 74 | 48-128 |

Field ID: MW-3(SS123)-10.0 Lab ID: 203532-002
 Type: SAMPLE Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | ND | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 71 | 48-128 |

Field ID: MW-3(SS123)-15.0 Lab ID: 203532-003
 Type: SAMPLE Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | ND | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 77 | 48-128 |

ND= Not Detected
 RL= Reporting Limit

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203532 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Matrix: | Soil | Sampled: | 05/22/08 |
| Units: | mg/Kg | Received: | 05/23/08 |
| Basis: | as received | Prepared: | 05/29/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/30/08 |
| Batch#: | 138696 | | |

Field ID: MW-3(SS123)-20.0
 Type: SAMPLE

Lab ID: 203532-004
 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 103 | 48-128 |

Type: BLANK
 Lab ID: QC444133

Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 68 | 48-128 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203532 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC444134 | Batch#: | 138696 |
| Matrix: | Soil | Prepared: | 05/29/08 |
| Units: | mg/Kg | Analyzed: | 05/30/08 |
| Basis: | as received | | |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 49.60 | 34.71 | 70 | 54-126 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 74 | 48-128 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203532 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | SHAKER TABLE |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Field ID: | MW-3(SS123)-5.0 | Batch#: | 138696 |
| MSS Lab ID: | 203532-001 | Sampled: | 05/22/08 |
| Matrix: | Soil | Received: | 05/23/08 |
| Units: | mg/Kg | Prepared: | 05/29/08 |
| Basis: | as received | Analyzed: | 05/30/08 |
| Diln Fac: | 1.000 | | |

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC444135

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | 0.1907 | 49.71 | 38.03 | 76 | 34-144 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 81 | 48-128 |

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC444136

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 49.58 | 43.27 | 87 | 34-144 | 13 | 47 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 93 | 48-128 |

RPD= Relative Percent Difference

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CHAIN OF CUSTODY

Page ____ of ____

Analysis

C & T LOGIN #: 203532

Sampler: JT

Project No.: 001-09567

Report To: Row G (S10) S01-1789

Project Name: Hanson Radon

Company: LER, Inc

Project P.O.:

Telephone: JT (S10) 316-6096

Turnaround Time: Standard

Fax:

| Lab No. | Sample ID. | Sampling Date Time | Matrix | | | # of Containers | Preservative | | | | |
|---------|--------------|--------------------|--------|-------|-------|-----------------|--------------|--------------------------------|------------------|-----|---|
| | | | Soil | Water | Waste | | HCL | H ₂ SO ₄ | HNO ₃ | ICE | |
| 1 | MU-3-SS-5.0 | 5/22 1300 | X | | | 1 | | | | | X |
| 2 | MU-3-SS-10.0 | 1315 | | | | | | | | | |
| 3 | MU-3-SS-15.0 | 1330 | | | | | | | | | |
| 4 | MU-3-SS-20.0 | 1345 | | | | | | | | | |
| 5 | MU-3-SS-25.0 | 1400 | | | | | | | | | |
| 6 | MU-3-SS-30.0 | 1415 | | | | | | | | | |
| 7 | MU-3-SS-35.0 | 1430 | | | | | | | | | |
| 8 | MU-3-SS-40.0 | 1500 | | | | | | | | | |
| 9 | MU-3-SS-47.0 | 1515 | | | | | | | | | |
| 10 | MU-3-SS-55.0 | 1545 | X | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | |
|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| X X X X TPH diesel + motor oil - SDIC v/ silica-gel cleanup (807) | Hold | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

Notes:

SAMPLE RECEIPT

Intact Cold
 On Ice Ambient

Preservative Correct?

Yes No N/A

RELINQUISHED BY:

JT 5/23 @ 12:15 DATE / TIME

DATE / TIME

DATE / TIME

RECEIVED BY:

[Signature] 5/23/00 12:15 DATE / TIME

DATE / TIME

DATE / TIME

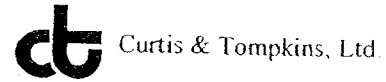
SIGNATURE

Table 1
 AOC 8 - Soil and Grab Groundwater Sample Matrix
 Hanson Radum
 3000 Busch Road, Pleasanton, California

| C&T Login Number | C&T Sample ID | Original LFR Sample ID | Revised LFR Sample ID | Date Sample Collected | Matrix | TPHd/mo w/silica gel clean up | C&T | DI-WEI TPHd/mo w/silica gel clean up | C&T | BTEX (ggw only) | C&T |
|------------------|---------------|------------------------|-----------------------|-----------------------|--------|-------------------------------|---------------|--------------------------------------|----------------|-----------------|-----|
| 203423 | 1 | F5-SS-5.0 | SS123(F5)-5.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 2 | F5-SS-10.0 | SS123(F5)-10.0 | 5/19/2008 | Soil | X | | X | | | |
| 203423 | 3 | F5-SS-15.0 | SS123(F5)-15.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 4 | F5-SS-18.0 | SS123(F5)-18.0 | 5/19/2008 | Soil | Hold | Take off hold | Hold | | | |
| 203423 | 5 | F5-SS-21.0 | SS123(F5)-21.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 6 | F5-SS-50.0 | SS123(F5)-50.0 | 5/19/2008 | Soil | Hold | Take off hold | | | | |
| 203423 | 7 | F5-SS-66.0 | SS123(F5)-66.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 8 | F5-GGW-25.0 | SS123(F5)-GGW-25.0 | 5/19/2008 | GGW | X | | | | X | |
| 203423 | 9 | MW-2-GGW-23.0 | MW-2(SS123)-GGW-23.0 | 5/20/2008 | GGW | X | | | | X | |
| 203423 | 10 | MW-2-SS-5.0 | MW-2(SS123)-5.0 | 5/20/2008 | Soil | X | | | | | |
| 203423 | 11 | MW-2-SS-10.0 | MW-2(SS123)-10.0 | 5/20/2008 | Soil | X | | | | | |
| 203423 | 12 | MW-2-SS-14.0 | MW-2(SS123)-14.0 | 5/20/2008 | Soil | X | | X | Pls analyze | | |
| 203423 | 13 | MW-2-SS-20.0 | MW-2(SS123)-20.0 | 5/20/2008 | Soil | X | | | Do not analyze | | |
| 203423 | 14 | MW-2-SS-65.0 | MW-2(SS123)-65.0 | 5/20/2008 | Soil | Hold | Take off hold | | | | |
| 203423 | 15 | MW-2-SS-74.0 | MW-2(SS123)-74.0 | 5/20/2008 | Soil | X | | | | | |
| 203423 | 16 | MW-2-SS-78.0 | MW-2(SS123)-78.0 | 5/20/2008 | Soil | Hold | Take off hold | | | | |
| 203557 | 1 | MW-2-GGW-75.0 | MW-2(SS123)-GGW-75.0 | 5/21/2008 | GGW | Hold | Take off hold | | | Hold | |
| 203557 | 2 | Equipment Blank | Equipment Blank | 5/21/2008 | GGW | Hold | | | | Hold | |
| 203530 | 1 | MW-1-SS-5.0 | MW-1(SS123)-5.0 | 5/21/2008 | Soil | X | | | | | |
| 203530 | 2 | MW-1-SS-13.0 | MW-1(SS123)-13.0 | 5/21/2008 | Soil | | Pls analyze | X | | | |
| 203530 | 3 | MW-1-SS-63.0 | MW-1(SS123)-63.0 | 5/22/2008 | Soil | Hold | Take off hold | Hold | Take off hold | | |
| 203530 | 4 | MW-1-SS-79.0 | MW-1(SS123)-79.0 | 5/22/2008 | Soil | Hold | Take off hold | | | | |
| TBD | 1 | - na - | MW-1(SS123)-50.0 | 5/22/2008 | Soil | | Pls analyze | | Pls analyze | | |
| 203533 | 1 | MW-1-GGW-18.0 | MW-1(SS123)-GGW-18.0 | 5/21/2008 | GGW | X | | | | X | |
| 203532 | 1 | MW-3-SS-5.0 | MW-3(SS123)-5.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 2 | MW-3-SS-10.0 | MW-3(SS123)-10.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 3 | MW-3-SS-15.0 | MW-3(SS123)-15.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 4 | MW-3-SS-20.0 | MW-3(SS123)-20.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 5 | MW-3-SS-25.0 | MW-3(SS123)-25.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 6 | MW-3-SS-30.0 | MW-3(SS123)-30.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 7 | MW-3-SS-35.0 | MW-3(SS123)-35.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 8 | MW-3-SS-42.0 | MW-3(SS123)-42.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 9 | MW-3-SS-47.0 | MW-3(SS123)-47.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 10 | MW-3-SS-55.0 | MW-3(SS123)-55.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203529 | 1 | SS123-F4-13 | SS123(F4)-13.0 | 5/22/2008 | Soil | X | | X | | | |
| 203529 | 2 | SS123-F4-18 | SS123(F4)-18.0 | 5/22/2008 | Soil | X | | | | | |



COOLER RECEIPT CHECKLIST



Login # 203532 Date Received 5/23/08 Number of coolers 1
 Client LFR Project HANSON RODUM
 Date Opened 5/23/08 By (print) M. Villanueva (sign) [Signature]
 Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)? YES NO
- Shipping info _____
- 2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____
- 2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe) _____
 Bubble Wrap Foam blocks Bags None
 Cloth material Cardboard Styrofoam Paper towels
7. If required, was sufficient ice used? Samples should be < or = 6°C YES NO N/A
 Type of ice used: Wet Blue None Temp(°C) _____
 Samples Received on ice & cold without a temperature blank
 Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? YES NO
 If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are samples in the appropriate containers for indicated tests? YES NO
11. Are sample labels present, in good condition and complete? YES NO
12. Do the sample labels agree with custody papers? YES NO
13. Was sufficient amount of sample sent for tests requested? YES NO
14. Are the samples appropriately preserved? YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? YES NO N/A
16. Was the client contacted concerning this sample delivery? YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 203533
ANALYTICAL REPORT

LFR Levine Fricke
1900 Powell Street
Emeryville, CA 94608

Project : 001-09567
Location : Hanson Radum
Level : II

Sample ID
MW-1(SS123)-GGW-18.0

Lab ID
203533-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: 
Project Manager

Date: 05/30/2008

Signature: 
Senior Program Manager

Date: 06/03/2008

CASE NARRATIVE

Laboratory number: 203533
Client: LFR Levine Fricke
Project: 001-09567
Location: Hanson Radum
Request Date: 05/23/08
Samples Received: 05/23/08

This hardcopy data package contains sample and QC results for one water sample, requested for the above referenced project on 05/23/08. The sample was received cold and intact. All data were e-mailed to Ron Goloubow on 05/30/08.

TPH-Purgeables and/or BTXE by GC (EPA 8021B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

Low surrogate recoveries were observed for hexacosane in the MS/MSD for batch 138588; the parent sample was not a project sample. No other analytical problems were encountered.

Benzene, Toluene, Ethylbenzene, Xylenes

| | | | |
|-----------|----------------------|-----------|---------------|
| Lab #: | 203533 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09567 | Analysis: | EPA 8021B |
| Field ID: | MW-1(SS123)-GGW-18.0 | Batch#: | 138630 |
| Matrix: | Water | Sampled: | 05/21/08 |
| Units: | ug/L | Received: | 05/23/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/28/08 |

Type: SAMPLE Lab ID: 203533-001

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 77 | 60-146 |
| Bromofluorobenzene (PID) | 89 | 65-143 |

Type: BLANK Lab ID: QC443846

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 93 | 60-146 |
| Bromofluorobenzene (PID) | 95 | 65-143 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Benzene, Toluene, Ethylbenzene, Xylenes

| | | | |
|-----------|-------------------|-----------|---------------|
| Lab #: | 203533 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09567 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 138630 |
| Units: | ug/L | Analyzed: | 05/28/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC443848

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Benzene | 10.00 | 9.670 | 97 | 80-120 |
| Toluene | 10.00 | 10.48 | 105 | 80-120 |
| Ethylbenzene | 10.00 | 10.81 | 108 | 80-120 |
| m,p-Xylenes | 10.00 | 10.51 | 105 | 80-120 |
| o-Xylene | 10.00 | 10.73 | 107 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 96 | 60-146 |
| Bromofluorobenzene (PID) | 101 | 65-143 |

Type: BSD Lab ID: QC443849

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Benzene | 10.00 | 9.413 | 94 | 80-120 | 3 | 20 |
| Toluene | 10.00 | 10.19 | 102 | 80-120 | 3 | 20 |
| Ethylbenzene | 10.00 | 10.47 | 105 | 80-120 | 3 | 20 |
| m,p-Xylenes | 10.00 | 9.867 | 99 | 80-120 | 6 | 20 |
| o-Xylene | 10.00 | 10.14 | 101 | 80-120 | 6 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 91 | 60-146 |
| Bromofluorobenzene (PID) | 94 | 65-143 |

RPD= Relative Percent Difference

Total Extractable Hydrocarbons

| | | | |
|-----------|----------------------|-----------|---------------|
| Lab #: | 203533 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Field ID: | MW-1(SS123)-GGW-18.0 | Batch#: | 138588 |
| Matrix: | Water | Sampled: | 05/21/08 |
| Units: | ug/L | Received: | 05/23/08 |
| Diln Fac: | 1.000 | Prepared: | 05/27/08 |

Type: SAMPLE Analyzed: 05/29/08
 Lab ID: 203533-001 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 410 Y | 50 |
| Motor Oil C24-C36 | 5,300 | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 97 | 63-130 |

Type: BLANK Analyzed: 05/28/08
 Lab ID: QC443665 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 96 | 63-130 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203533 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC443666 | Batch#: | 138588 |
| Matrix: | Water | Prepared: | 05/27/08 |
| Units: | ug/L | Analyzed: | 05/28/08 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 2,106 | 84 | 61-120 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 107 | 63-130 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|---------------|
| Lab #: | 203533 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 138588 |
| MSS Lab ID: | 203539-014 | Sampled: | 05/23/08 |
| Matrix: | Water | Received: | 05/23/08 |
| Units: | ug/L | Prepared: | 05/27/08 |
| Diln Fac: | 1.000 | Analyzed: | 05/28/08 |

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC443667

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|-------------|----------|--------|
| Diesel C10-C24 | 163,500 | 2,500 | 121,800 >LR | -1671 NM | 58-126 |

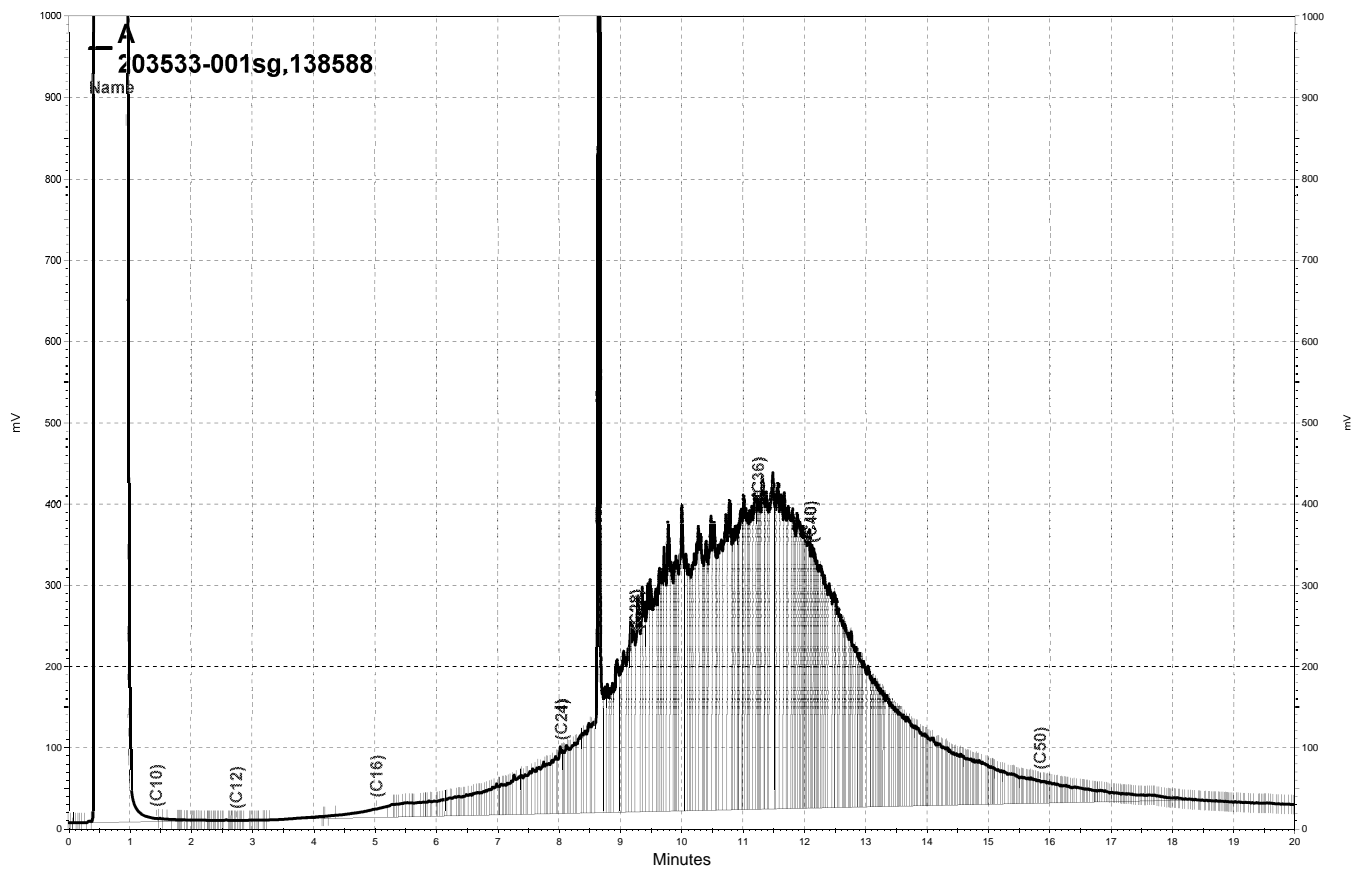
| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 10 * | 63-130 |

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC443668

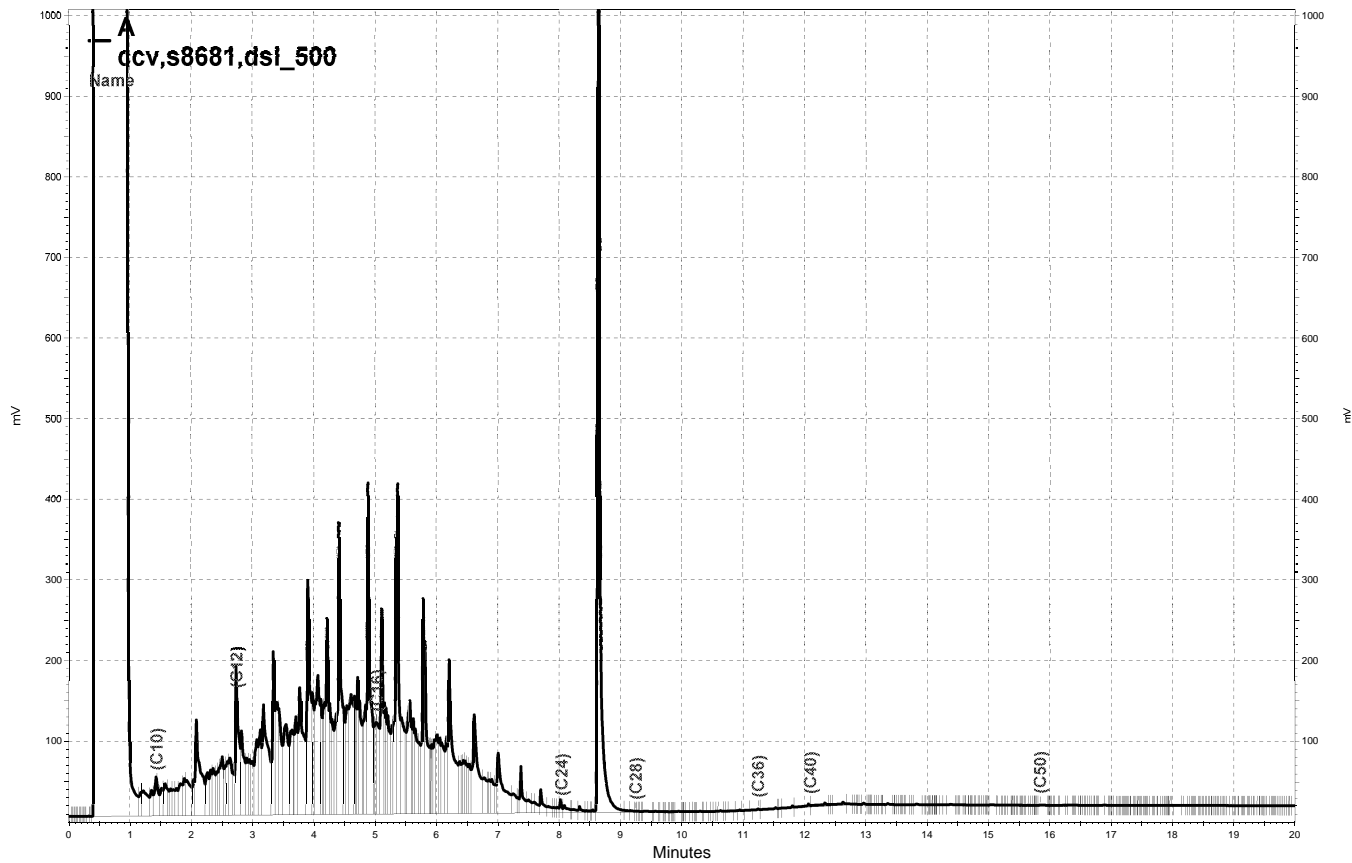
| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|-------------|----------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 100,300 >LR | -2529 NM | 58-126 | NC | 31 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 14 * | 63-130 |

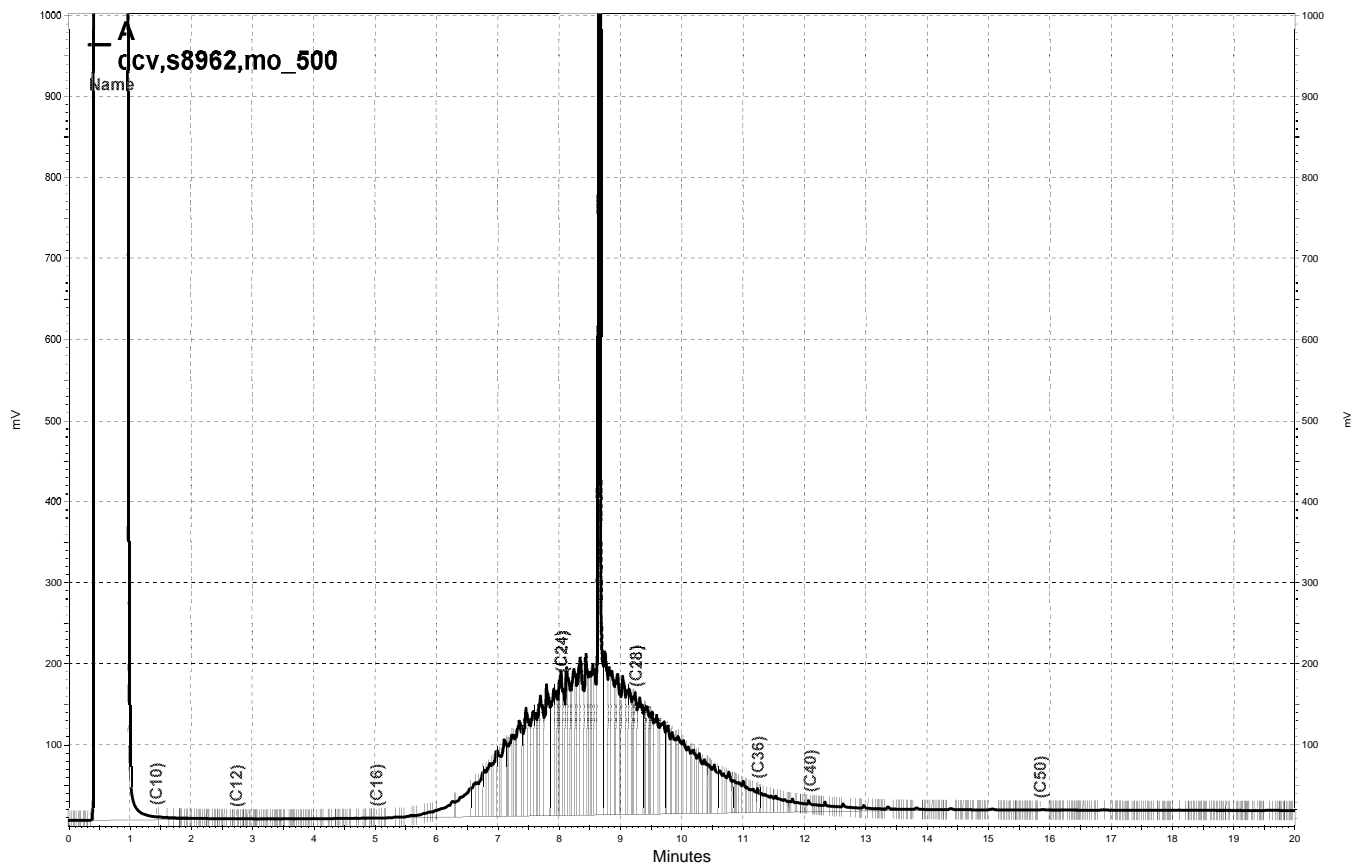
*= Value outside of QC limits; see narrative
 NC= Not Calculated
 NM= Not Meaningful: Sample concentration > 4X spike concentration
 >LR= Response exceeds instrument's linear range
 RPD= Relative Percent Difference



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\148a082, A



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\148a057, A



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\148a058, A

Table 1
AOC 8 - Soil and Grab Groundwater Sample Matrix
Hanson Radum
3000 Busch Road, Pleasanton, California

| C&T Login Number | C&T Sample ID | Original LFR Sample ID | Revised LFR Sample ID | Date Sample Collected | Matrix | TPHd/mo w/silica gel clean up | C&T | DI-WET TPHd/mo w/silica gel clean up | C&T | BTEX (ggw only) | C&T |
|------------------|---------------|------------------------|-----------------------|-----------------------|--------|-------------------------------|---------------|--------------------------------------|----------------|-----------------|------|
| 203423 | 1 | F5-SS-5.0 | SS123(F5)-5.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 2 | F5-SS-10.0 | SS123(F5)-10.0 | 5/19/2008 | Soil | X | | X | | | |
| 203423 | 3 | F5-SS-15.0 | SS123(F5)-15.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 4 | F5-SS-18.0 | SS123(F5)-18.0 | 5/19/2008 | Soil | Hold | Take off hold | Hold | | | |
| 203423 | 5 | F5-SS-21.0 | SS123(F5)-21.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 6 | F5-SS-50.0 | SS123(F5)-50.0 | 5/19/2008 | Soil | Hold | Take off hold | | | | |
| 203423 | 7 | F5-SS-66.0 | SS123(F5)-66.0 | 5/19/2008 | Soil | X | | | | | |
| 203423 | 8 | F5-GGW-25.0 | SS123(F5)-GGW-25.0 | 5/19/2008 | GGW | X | | | | X | |
| 203423 | 9 | MW-2-GGW-23.0 | MW-2(SS123)-GGW-23.0 | 5/20/2008 | GGW | X | | | | X | |
| 203423 | 10 | MW-2-SS-5.0 | MW-2(SS123)-5.0 | 5/20/2008 | Soil | X | | | | | |
| 203423 | 11 | MW-2-SS-10.0 | MW-2(SS123)-10.0 | 5/20/2008 | Soil | X | | | | | |
| 203423 | 12 | MW-2-SS-14.0 | MW-2(SS123)-14.0 | 5/20/2008 | Soil | X | | X | Pls analyze | | |
| 203423 | 13 | MW-2-SS-20.0 | MW-2(SS123)-20.0 | 5/20/2008 | Soil | X | | | Do not analyze | | |
| 203423 | 14 | MW-2-SS-65.0 | MW-2(SS123)-65.0 | 5/20/2008 | Soil | Hold | Take off hold | | | | |
| 203423 | 15 | MW-2-SS-74.0 | MW-2(SS123)-74.0 | 5/20/2008 | Soil | X | | | | | |
| 203423 | 16 | MW-2-SS-78.0 | MW-2(SS123)-78.0 | 5/20/2008 | Soil | Hold | Take off hold | | | | |
| 203557 | 1 | MW-2-GGW-75.0 | MW-2(SS123)-GGW-75.0 | 5/21/2008 | GGW | Hold | Take off hold | | | | Hold |
| 203557 | 2 | Equipment Blank | Equipment Blank | 5/21/2008 | GGW | Hold | | | | | Hold |
| 203530 | 1 | MW-1-SS-5.0 | MW-1(SS123)-5.0 | 5/21/2008 | Soil | X | | | | | |
| 203530 | 2 | MW-1-SS-13.0 | MW-1(SS123)-13.0 | 5/21/2008 | Soil | | Pls analyze | X | | | |
| 203530 | 3 | MW-1-SS-63.0 | MW-1(SS123)-63.0 | 5/22/2008 | Soil | Hold | Take off hold | Hold | Take off hold | | |
| 203530 | 4 | MW-1-SS-79.0 | MW-1(SS123)-79.0 | 5/22/2008 | Soil | Hold | Take off hold | | | | |
| TBD | 1 | - na - | MW-1(SS123)-50.0 | 5/22/2008 | Soil | | Pls analyze | | Pls analyze | | |
| 203533 | 1 | MW-1-GGW-18.0 | MW-1(SS123)-GGW-18.0 | 5/21/2008 | GGW | X | | | | | X |
| 203532 | 1 | MW-3-SS-5.0 | MW-3(SS123)-5.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 2 | MW-3-SS-10.0 | MW-3(SS123)-10.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 3 | MW-3-SS-15.0 | MW-3(SS123)-15.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 4 | MW-3-SS-20.0 | MW-3(SS123)-20.0 | 5/22/2008 | Soil | X | | | | | |
| 203532 | 5 | MW-3-SS-25.0 | MW-3(SS123)-25.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 6 | MW-3-SS-30.0 | MW-3(SS123)-30.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 7 | MW-3-SS-35.0 | MW-3(SS123)-35.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 8 | MW-3-SS-42.0 | MW-3(SS123)-42.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 9 | MW-3-SS-47.0 | MW-3(SS123)-47.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203532 | 10 | MW-3-SS-55.0 | MW-3(SS123)-55.0 | 5/22/2008 | Soil | Hold | | | | | |
| 203529 | 1 | SS123-F4-13 | SS123(F4)-13.0 | 5/22/2008 | Soil | X | | | | | |
| 203529 | 2 | SS123-F4-18 | SS123(F4)-18.0 | 5/22/2008 | Soil | X | | X | | | |

Curtis & Tompkins, Ltd.
 Analytical Laboratory Since 1878
 2323 Fifth Street
 Berkeley, CA 94710
 (510) 486-0900 Phone
 (510) 486-0532 Fax

CHAIN OF CUSTODY

Analysis

C & T LOGIN #: 203533

Project No.: 601-09567

Sampler: JT riolo

Project Name: Hansen, Rardin

Report To: Rou G. - (510) 501-1789

Project P.O.:

Company: LFR, Inc.

Turnaround Time: Standard

Telephone: (510) 316-6096 JT

Fax:

| Lab No. | Sample ID. | Sampling Date Time | Matrix | | | # of Containers | Preservative | | | |
|---------|---------------|--------------------|--------|-------|-------|-----------------|--------------|--------------------------------|------------------|-----|
| | | | Soil | Water | Waste | | HCL | H ₂ SO ₄ | HNO ₃ | ICE |
| | MW-1-GGW-18.0 | 1500 5/21 | | X | | 5 | X | | | |
| | MW-1-GGW-18.0 | 1500 5/21 | | X | | 1 | | | X | |
| | | | | | | | | | | |
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|--|--|--|--|--|--|--|--|--|--|--|
| TPH diesel + motor oil - 8015 w/ silica-gel cleanup | | | | | | | | | | |
| BTEX-8021 | | | | | | | | | | |
| Hold | | | | | | | | | | |
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Notes:

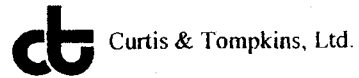
SAMPLE RECEIPT
 Intact Cold
 On Ice Ambient
 Preservative Correct?
 Yes No N/A

RELINQUISHED BY:
JT 5/23 @ 12:15 DATE / TIME

RECEIVED BY:
[Signature] 5/23/09 12:15 DATE / TIME

SIGNATURE

COOLER RECEIPT CHECKLIST



Login # 203533 Date Received 5/23/08 Number of coolers 1
 Client LFR Project HANSON RADON

Date Opened 5/23/08 MV By (print) M. Villanueva (sign) [Signature]
 Date Logged in ✓ By (print) ✓ (sign) ✓

1. Did cooler come with a shipping slip (airbill, etc)?..... YES NO
 Shipping info _____

2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received?..... YES NO

4. Were custody papers filled out properly (ink, signed, etc)?..... YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form)..... YES NO

6. Indicate the packing in cooler: (if other, describe) _____
 Bubble Wrap Foam blocks Bags None
 Cloth material Cardboard Styrofoam Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C YES NO N/A

Type of ice used: Wet Blue None Temp(°C) _____

Samples Received on ice & cold without a temperature blank
 Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO

If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened?..... YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples?..... YES NO N/A

16. Was the client contacted concerning this sample delivery?..... YES NO

If YES, Who was called? _____ By _____ Date: _____

COMMENTS
REC'D 1 1L BUBBLER 10# EQUIP BLANK LOG-ON HOLD
REC'D 1 1L BUBBLER (NO LABEL 10#) LOG-ON HOLD



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 203740
ANALYTICAL REPORT

LFR Levine Fricke
1900 Powell Street
Emeryville, CA 94608

Project : 001-09567-06
Location : Hanson Radum
Level : II

Sample ID
MW-1(SS123)-50.0

Lab ID
203740-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: 
Project Manager

Date: 06/16/2008

Signature: 
Project Manager

Date: 06/16/2008

CASE NARRATIVE

Laboratory number: 203740
Client: LFR Levine Fricke
Project: 001-09567-06
Location: Hanson Radum
Request Date: 06/04/08
Samples Received: 06/04/08

This hardcopy data package contains sample and QC results for one soil sample, requested for the above referenced project on 06/04/08. The sample was received intact at ambient temperature. All data were e-mailed to Katrin Schliewen on 06/13/08.

TPH-Extractables by GC (EPA 8015B) Soil:

MW-1(SS123)-50.0 (lab # 203740-001) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) WET DI Leachate:

No analytical problems were encountered.

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203740 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3550B |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Field ID: | MW-1(SS123)-50.0 | Sampled: | 05/22/08 |
| Matrix: | Soil | Received: | 06/04/08 |
| Units: | mg/Kg | Prepared: | 06/04/08 |
| Basis: | as received | Analyzed: | 06/06/08 |
| Batch#: | 138931 | | |

Type: SAMPLE Diln Fac: 20.00
 Lab ID: 203740-001 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|----|
| Diesel C10-C24 | 220 Y | 20 |
| Motor Oil C24-C36 | 2,300 | 99 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | DO | 48-128 |

Type: BLANK Diln Fac: 1.000
 Lab ID: QC445092 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|------|
| Diesel C10-C24 | ND | 0.99 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 101 | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203740 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3550B |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC445093 | Batch#: | 138931 |
| Matrix: | Soil | Prepared: | 06/04/08 |
| Units: | mg/Kg | Analyzed: | 06/06/08 |
| Basis: | as received | | |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 49.97 | 52.94 | 106 | 54-126 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 106 | 48-128 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|---------------|
| Lab #: | 203740 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 3550B |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 138931 |
| MSS Lab ID: | 203689-003 | Sampled: | 06/01/08 |
| Matrix: | Soil | Received: | 06/03/08 |
| Units: | mg/Kg | Prepared: | 06/04/08 |
| Basis: | as received | Analyzed: | 06/11/08 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC445094

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | 1.154 | 49.94 | 54.31 | 106 | 34-144 |

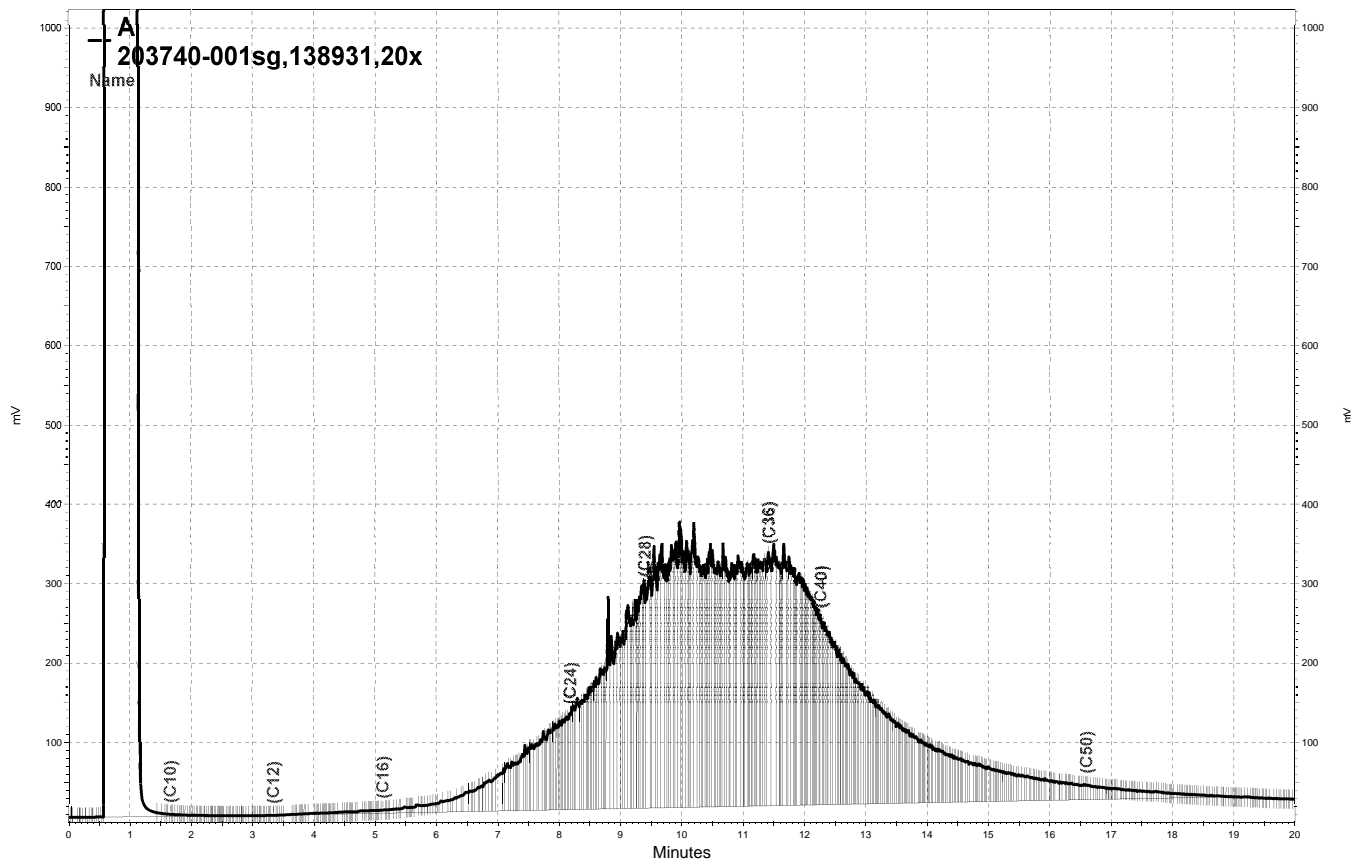
| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 119 | 48-128 |

Type: MSD Lab ID: QC445095

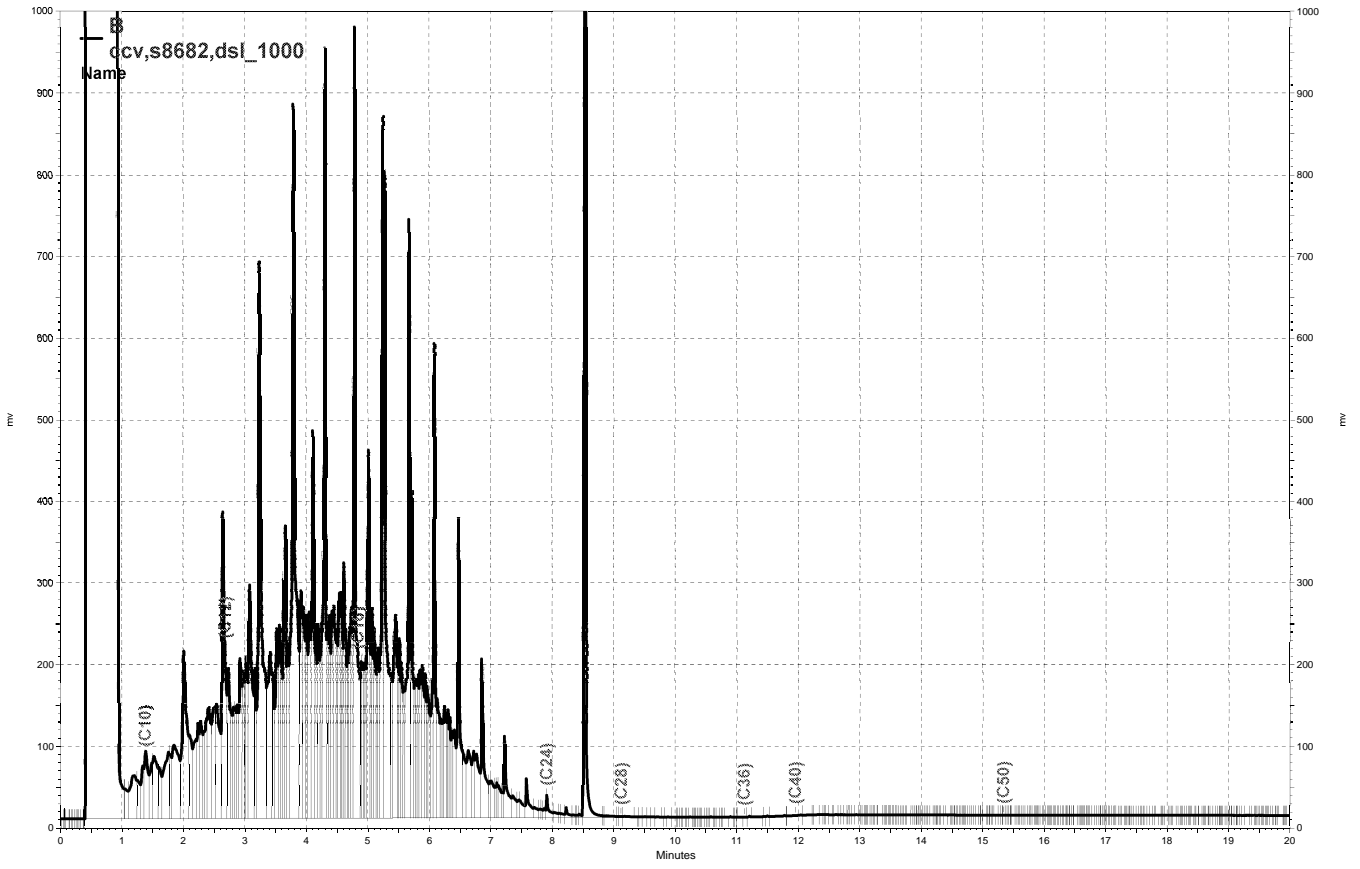
| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 49.94 | 56.21 | 110 | 34-144 | 3 | 47 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 116 | 48-128 |

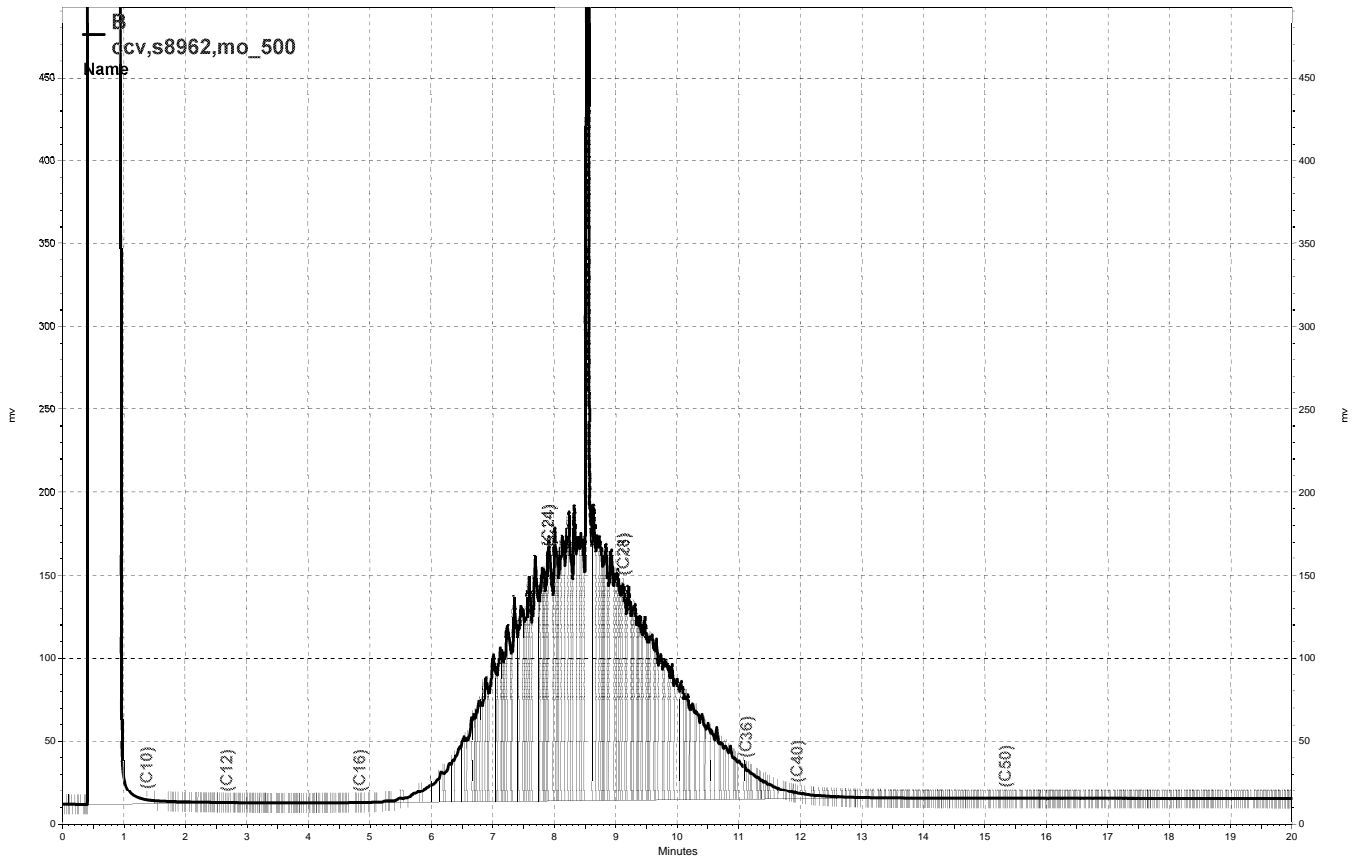
RPD= Relative Percent Difference



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\158a015, A



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\157b053, B



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\157b056, B

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203740 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Field ID: | MW-1(SS123)-50.0 | Sampled: | 05/22/08 |
| Units: | ug/L | Received: | 06/04/08 |
| Diln Fac: | 1.000 | Prepared: | 06/09/08 |
| Batch#: | 139080 | Analyzed: | 06/11/08 |

Type: SAMPLE Matrix: WET DI Leachate
 Lab ID: 203740-001 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 99 | 63-130 |

Type: BLANK Matrix: Water
 Lab ID: QC445729 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 100 | 63-130 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

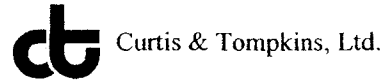
| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203740 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC445730 | Batch#: | 139080 |
| Matrix: | Water | Prepared: | 06/09/08 |
| Units: | ug/L | Analyzed: | 06/11/08 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 1,891 | 76 | 61-120 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 92 | 63-130 |

COOLER RECEIPT CHECKLIST



Login # 203740 Date Received 6/4/08 Number of coolers 0
Client LPE Project HANSON, RADUM

Date Opened 6/4/08 By (print) M. Villanueva (sign) [Signature]
Date Logged in [check] By (print) [check] (sign) [check]

1. Did cooler come with a shipping slip (airbill, etc)?..... YES NO
Shipping info

2A. Were custody seals present? YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received?..... YES NO

4. Were custody papers filled out properly (ink, signed, etc)?..... YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form)..... YES NO

6. Indicate the packing in cooler: (if other, describe)

Bubble Wrap Foam blocks Bags None

Cloth material Cardboard Styrofoam Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°C YES NO N/A

Type of ice used: Wet Blue None Temp(°C)

Samples Received on ice & cold without a temperature blank

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO

If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened?..... YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples?..... YES NO N/A

16. Was the client contacted concerning this sample delivery?..... YES NO

If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.



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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 203762
ANALYTICAL REPORT

LFR Levine Fricke
1900 Powell Street
Emeryville, CA 94608

Project : 001-09567-06
Location : Hanson Radum
Level : II

| <u>Sample ID</u> | <u>Lab ID</u> |
|------------------|---------------|
| TB060508 | 203762-001 |
| MW-4(SS123) | 203762-002 |
| MW-3(SS123) | 203762-003 |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: 
Project Manager

Date: 06/12/2008

Signature: 
Senior Program Manager

Date: 06/12/2008

CASE NARRATIVE

Laboratory number: 203762
Client: LFR Levine Fricke
Project: 001-09567-06
Location: Hanson Radum
Request Date: 06/05/08
Samples Received: 06/05/08

This hardcopy data package contains sample and QC results for two water samples, requested for the above referenced project on 06/05/08. The samples were received cold and intact. All data were e-mailed to Ron Goloubow on 06/12/08.

TPH-Purgeables and/or BTXE by GC (EPA 8021B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Benzene, Toluene, Ethylbenzene, Xylenes

| | | | |
|-----------|-------------------|-----------|--------------|
| Lab #: | 203762 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09567-06 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 138994 |
| Units: | ug/L | Sampled: | 06/05/08 |
| Diln Fac: | 1.000 | Received: | 06/05/08 |

Field ID: MW-4(SS123)
Type: SAMPLE

Lab ID: 203762-002
Analyzed: 06/07/08

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 108 | 60-146 |
| Bromofluorobenzene (PID) | 117 | 65-143 |

Field ID: MW-3(SS123)
Type: SAMPLE

Lab ID: 203762-003
Analyzed: 06/07/08

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 99 | 60-146 |
| Bromofluorobenzene (PID) | 106 | 65-143 |

Type: BLANK
Lab ID: QC445372

Analyzed: 06/06/08

| Analyte | Result | RL |
|--------------|--------|------|
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 99 | 60-146 |
| Bromofluorobenzene (PID) | 89 | 65-143 |

ND= Not Detected
RL= Reporting Limit

Batch QC Report
Benzene, Toluene, Ethylbenzene, Xylenes

| | | | |
|-----------|-------------------|-----------|---------------|
| Lab #: | 203762 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 5030B |
| Project#: | 001-09567-06 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 138994 |
| Units: | ug/L | Analyzed: | 06/06/08 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC445431

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Benzene | 10.00 | 8.965 | 90 | 80-120 |
| Toluene | 10.00 | 9.468 | 95 | 80-120 |
| Ethylbenzene | 10.00 | 8.704 | 87 | 80-120 |
| m,p-Xylenes | 10.00 | 8.517 | 85 | 80-120 |
| o-Xylene | 10.00 | 8.793 | 88 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 94 | 60-146 |
| Bromofluorobenzene (PID) | 92 | 65-143 |

Type: BSD Lab ID: QC445432

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Benzene | 20.00 | 17.96 | 90 | 80-120 | 0 | 20 |
| Toluene | 20.00 | 19.37 | 97 | 80-120 | 2 | 20 |
| Ethylbenzene | 20.00 | 18.89 | 94 | 80-120 | 8 | 20 |
| m,p-Xylenes | 20.00 | 19.02 | 95 | 80-120 | 11 | 20 |
| o-Xylene | 20.00 | 19.75 | 99 | 80-120 | 12 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Trifluorotoluene (PID) | 97 | 60-146 |
| Bromofluorobenzene (PID) | 117 | 65-143 |

RPD= Relative Percent Difference

| Total Extractable Hydrocarbons | | | |
|---------------------------------------|-------------------|-----------|---------------|
| Lab #: | 203762 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Matrix: | Water | Sampled: | 06/05/08 |
| Units: | ug/L | Received: | 06/05/08 |
| Diln Fac: | 1.000 | Prepared: | 06/06/08 |
| Batch#: | 139000 | | |

Field ID: MW-4(SS123) Analyzed: 06/10/08
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 203762-002

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 104 | 63-130 |

Field ID: MW-3(SS123) Analyzed: 06/10/08
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 203762-003

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 86 | 63-130 |

Type: BLANK Analyzed: 06/09/08
 Lab ID: QC445410 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 127 | 63-130 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203762 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC445411 | Batch#: | 139000 |
| Matrix: | Water | Prepared: | 06/06/08 |
| Units: | ug/L | Analyzed: | 06/10/08 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 2,551 | 102 | 61-120 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 110 | 63-130 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|---------------|
| Lab #: | 203762 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-06 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 139000 |
| MSS Lab ID: | 203769-009 | Sampled: | 06/04/08 |
| Matrix: | Water | Received: | 06/05/08 |
| Units: | ug/L | Prepared: | 06/06/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/09/08 |

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC445412

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | <13.76 | 2,500 | 1,537 | 61 | 58-126 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 95 | 63-130 |

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC445413

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 1,831 | 73 | 58-126 | 17 | 31 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 108 | 63-130 |

RPD= Relative Percent Difference

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

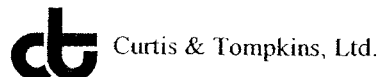
203762

| | | | | |
|--|--|--|--|---------------------------------|
| SAMPLE COLLECTOR: 1900 Powell Street, 12th Floor Emeryville, California 94608-1827 (510) 652-4500 Fax: (510) 652-2246 | PROJECT NO.: 001-09567-06 PROJECT NAME: Hanson Radium | SECTION NO.: _____ DATE: 6/5/08 | SAMPLER'S INITIALS: WWS SAMPLER (Signature): | SERIAL NO.: No 200045 |
|--|--|--|--|---------------------------------|

| SAMPLE | | | | ANALYSES | | | | | | | | | | REMARKS | | | | |
|------------|--------|------|----------------|-------------------|-------|-------------------|------------------|---------------------|----------------------|--------------------------|--------|----------|------|---------|---|-----|--|------------------|
| Sample ID. | Date | Time | Lab Sample No. | No. of Containers | | TYPE | | | | | | | | | | TAT | | |
| | | | | Soil | Water | TPHd (EPA 8015M)* | TPHg (EPA 8015M) | BTEX (EPA 8021/602) | VOCs (EPA 8260/624)* | Metals (EPA 6010/7000)** | TPHmg* | Standard | RUSH | HOLD | | | | |
| 1 TB060500 | 6/5/08 | - | 2 | X | | | | | | | | | | | | | | X use silica gel |
| 2 MW-7 | ↓ | 1015 | 6 | X | X | X | X | X | | | | | | | X | | | cleanup on TPH |
| 3 MW-3 | ↓ | 1135 | 6 | X | X | X | X | X | | | | | | | X | | | samples |
| | | | | | | | | | | | | | | | | | *Decant Amber liter Before Sampling BTEX EPA Method 8021 TPHd/mg EPA Method 8015M | |

| | | | | | | | | |
|--|---|--|---|---|---|---|---|--|
| SAMPLE RECEIPT: <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Cold <input checked="" 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: Cooler No.: | METHOD OF SHIPMENT: LAB REPORT NO.: FAX COC CONFIRMATION TO: | REINQUISHED BY: (SIGNATURE) (PRINTED NAME) Michael Sullivan (COMPANY) LFR | 6/5/08 15:37 | 1 RELINQUISHED BY: (SIGNATURE) _____ (PRINTED NAME) _____ (COMPANY) _____ | (DATE) _____ (TIME) _____ (DATE) _____ (TIME) _____ | 2 RELINQUISHED BY: (SIGNATURE) _____ (PRINTED NAME) _____ (COMPANY) _____ | (DATE) _____ (TIME) _____ (DATE) _____ (TIME) _____ |
| ANALYTICAL LABORATORY: C&T | FAX RESULTS TO: SEND HARDCOPY TO: SEND EDD TO: EMV.LABEDDS.COM | RECEIVED BY: (SIGNATURE) (PRINTED NAME) King Win (COMPANY) C&T | 6/5/08 15:37 | 1 RECEIVED BY: (SIGNATURE) _____ (PRINTED NAME) _____ (COMPANY) _____ | (DATE) _____ (TIME) _____ (DATE) _____ (TIME) _____ | 2 RECEIVED BY (LABORATORY): (SIGNATURE) _____ (PRINTED NAME) _____ (LABORATORY) _____ | (DATE) _____ (TIME) _____ (DATE) _____ (TIME) _____ | |

COOLER RECEIPT CHECKLIST



Login # 203762 Date Received 6/5/08 Number of coolers 1
 Client LFR Project Hanson Adm

Date Opened 6/5 By (print) K Wellbrock (sign) [Signature]
 Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc)?.....YES NO

Shipping info _____

2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received?..... YES NO

4. Were custody papers filled out properly (ink, signed, etc)?..... YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form)..... YES NO

6. Indicate the packing in cooler: (if other, describe) _____

Bubble Wrap Foam blocks Bags None

Cloth material Cardboard Styrofoam Paper towels

7. If required, was sufficient ice used? Samples should be < or = 6°CYES NO N/A

Type of ice used: Wet Blue None Temp(°C) _____

Samples Received on ice & cold without a temperature blank

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present?YES NO

If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened?..... YES NO

10. Are samples in the appropriate containers for indicated tests? YES NO

11. Are sample labels present, in good condition and complete? YES NO

12. Do the sample labels agree with custody papers? YES NO

13. Was sufficient amount of sample sent for tests requested? YES NO

14. Are the samples appropriately preserved? YES NO N/A

15. Are bubbles > 6mm absent in VOA samples?..... YES NO N/A

16. Was the client contacted concerning this sample delivery?.....YES NO

If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Tracy Babjar

From: "Schliewen, Katrin" <Katrin.Schliewen@lfr.com>
To: "Tracy Babjar" <tracy.babjar@ctberk.com>
Sent: Monday, June 09, 2008 9:07 AM
Subject: RE: 001-09567-06 - C&T Login Summary (203762)

For the final report, please change the client IDs MW-4(SS123) and MW-3(SS123) for lab IDs 2 and 3, respectively. Thanks, Katrin.

From: Tracy Babjar [mailto:tracy.babjar@ctberk.com]
Sent: Friday, June 06, 2008 5:43 PM
To: Schliewen, Katrin
Subject: 001-09567-06 - C&T Login Summary (203762)

C&T Login Summary for 203762

| | | |
|--|---|---|
| Project: 001-09567-06 Site: Hanson Radum Lab Login #: 203762 Report Due: 06/12/08 PO#: C&T Proj Mgr: Tracy Babjar | Report To: LFR Levine Fricke 1900 Powell Street 12th Floor Emeryville, CA 94608 ATTN: Ron Goloubow (510) 652-4500 | Bill To: LFR Levine Fricke 1900 Powell Street 12th Floor Emeryville, CA 94608 ATTN: Accounts Payal (510) 652-4500 |
|--|---|---|

| Client ID | Lab ID | Sampled | Received | Matrix | Analyses | COC # | Comments |
|-----------|--------|---------|----------|--------|------------|--------|------------|
| | | | | | | | |
| TB060508 | 001 | 06/05 | 06/05 | | | 200045 | |
| | | | | Water | HOLD | | |
| MW-4 | 002 | 06/05 | 06/05 | | | 200045 | |
| | | | | Water | BTXE | | |
| | | | | Water | SILICA GEL | | |
| | | | | Water | TEHM | | Silica Gel |
| MW-3 | 003 | 06/05 | 06/05 | | | 200045 | |
| | | | | Water | BTXE | | |
| | | | | Water | SILICA GEL | | |
| | | | | Water | TEHM | | Silica Gel |

Email compiled and sent 06/06/08 05:43 PM.

This message (including any attachments) is intended only for the use of the named a may contain information that is legally privileged, confidential or exempt from disc If you are not a named addressee, you are hereby notified that any use, disseminatio



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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 203766
ANALYTICAL REPORT

LFR Levine Fricke
1900 Powell Street
Emeryville, CA 94608

Project : 001-09567-01
Location : Hanson Radum
Level : II

| <u>Sample ID</u> | <u>Lab ID</u> |
|----------------------|---------------|
| SS123(F5)-18.0 | 203766-001 |
| SS123(F5)-50.0 | 203766-002 |
| MW-2(SS123)-65.0 | 203766-003 |
| MW-2(SS123)-78.0 | 203766-004 |
| MW-2(SS123)-GGW-75.0 | 203766-005 |
| MW-1(SS123)-63.0 | 203766-006 |
| MW-1(SS123)-79.0 | 203766-007 |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: 
Project Manager

Date: 06/12/2008

Signature: 
Senior Program Manager

Date: 06/12/2008

CASE NARRATIVE

Laboratory number: 203766
Client: LFR Levine Fricke
Project: 001-09567-01
Location: Hanson Radum
Request Date: 06/05/08
Samples Received: 05/20/08, 05/23/08, 05/27/08

This hardcopy data package contains sample and QC results for six soil samples and one water sample, requested for the above referenced project on 06/05/08. The samples were received cold and intact. All data were e-mailed to Katrin Schliewen on 06/12/08.

TPH-Extractables by GC (EPA 8015B) Soil:

Many samples were prepared outside of hold time at the client's request; affected data was qualified with "b". SS123(F5)-18.0 (lab # 203766-001) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) WET DI Leachate:

No analytical problems were encountered.

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203766 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3550B |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Matrix: | Soil | Basis: | as received |
| Units: | mg/Kg | | |

| | | | |
|-----------|----------------|-----------------|-----------|
| Field ID: | SS123(F5)-18.0 | Sampled: | 05/19/08 |
| Type: | SAMPLE | Received: | 05/20/08 |
| Lab ID: | 203766-001 | Prepared: | 06/07/08 |
| Diln Fac: | 20.00 | Analyzed: | 06/08/08 |
| Batch#: | 139016 | Cleanup Method: | EPA 3630C |

| Analyte | Result | RL |
|-------------------|---------|-----|
| Diesel C10-C24 | 76 Y b | 20 |
| Motor Oil C24-C36 | 1,900 b | 100 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | DO b | 48-128 |

| | | | |
|-----------|----------------|-----------------|-----------|
| Field ID: | SS123(F5)-50.0 | Sampled: | 05/19/08 |
| Type: | SAMPLE | Received: | 05/20/08 |
| Lab ID: | 203766-002 | Prepared: | 06/07/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/08/08 |
| Batch#: | 139016 | Cleanup Method: | EPA 3630C |

| Analyte | Result | RL |
|-------------------|---------|-----|
| Diesel C10-C24 | 3.7 Y b | 1.0 |
| Motor Oil C24-C36 | 23 b | 5.0 |

| Surrogate | %REC | Limits |
|------------|-------|--------|
| Hexacosane | 128 b | 48-128 |

| | | | |
|-----------|------------------|-----------------|-----------|
| Field ID: | MW-2(SS123)-65.0 | Sampled: | 05/20/08 |
| Type: | SAMPLE | Received: | 05/20/08 |
| Lab ID: | 203766-003 | Prepared: | 06/07/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/08/08 |
| Batch#: | 139016 | Cleanup Method: | EPA 3630C |

| Analyte | Result | RL |
|-------------------|---------|-----|
| Diesel C10-C24 | 1.2 Y b | 1.0 |
| Motor Oil C24-C36 | 6.0 b | 5.0 |

| Surrogate | %REC | Limits |
|------------|-------|--------|
| Hexacosane | 106 b | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203766 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3550B |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Matrix: | Soil | Basis: | as received |
| Units: | mg/Kg | | |

| | | | |
|-----------|------------------|-----------------|-----------|
| Field ID: | MW-2(SS123)-78.0 | Sampled: | 05/20/08 |
| Type: | SAMPLE | Received: | 05/20/08 |
| Lab ID: | 203766-004 | Prepared: | 06/07/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/08/08 |
| Batch#: | 139016 | Cleanup Method: | EPA 3630C |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND b | 1.0 |
| Motor Oil C24-C36 | ND b | 5.0 |

| Surrogate | %REC | Limits |
|------------|-------|--------|
| Hexacosane | 119 b | 48-128 |

| | | | |
|-----------|----------------------|-----------------|-----------|
| Field ID: | MW-2(SS123)-GGW-75.0 | Sampled: | 05/21/08 |
| Type: | SAMPLE | Received: | 05/27/08 |
| Lab ID: | 203766-005 | Prepared: | 06/09/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/10/08 |
| Batch#: | 139068 | Cleanup Method: | EPA 3630C |

| Analyte | Result | RL |
|-------------------|---------|-----|
| Diesel C10-C24 | 2.8 Y b | 1.0 |
| Motor Oil C24-C36 | 12 b | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 93 b | 48-128 |

| | | | |
|-----------|------------------|-----------------|-----------|
| Field ID: | MW-1(SS123)-63.0 | Sampled: | 05/22/08 |
| Type: | SAMPLE | Received: | 05/23/08 |
| Lab ID: | 203766-006 | Prepared: | 06/07/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/11/08 |
| Batch#: | 139016 | Cleanup Method: | EPA 3630C |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | 10 Y b | 1.0 |
| Motor Oil C24-C36 | 88 b | 5.0 |

| Surrogate | %REC | Limits |
|------------|-------|--------|
| Hexacosane | 110 b | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203766 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3550B |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Matrix: | Soil | Basis: | as received |
| Units: | mg/Kg | | |

| | | | |
|-----------|------------------|-----------------|-----------|
| Field ID: | MW-1(SS123)-79.0 | Sampled: | 05/22/08 |
| Type: | SAMPLE | Received: | 05/23/08 |
| Lab ID: | 203766-007 | Prepared: | 06/07/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/08/08 |
| Batch#: | 139016 | Cleanup Method: | EPA 3630C |

| Analyte | Result | RL |
|-------------------|---------|-----|
| Diesel C10-C24 | 2.8 Y b | 1.0 |
| Motor Oil C24-C36 | 16 b | 5.0 |

| Surrogate | %REC | Limits |
|------------|-------|--------|
| Hexacosane | 113 b | 48-128 |

| | | | |
|-----------|----------|-----------------|-----------|
| Type: | BLANK | Prepared: | 06/07/08 |
| Lab ID: | QC445465 | Analyzed: | 06/08/08 |
| Diln Fac: | 1.000 | Cleanup Method: | EPA 3630C |
| Batch#: | 139016 | | |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 112 | 48-128 |

| | | | |
|-----------|----------|-----------------|-----------|
| Type: | BLANK | Prepared: | 06/09/08 |
| Lab ID: | QC445685 | Analyzed: | 06/10/08 |
| Diln Fac: | 1.000 | Cleanup Method: | EPA 3630C |
| Batch#: | 139068 | | |

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 1.0 |
| Motor Oil C24-C36 | ND | 5.0 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 102 | 48-128 |

Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203766 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3550B |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC445466 | Batch#: | 139016 |
| Matrix: | Soil | Prepared: | 06/07/08 |
| Units: | mg/Kg | Analyzed: | 06/08/08 |
| Basis: | as received | | |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 49.97 | 42.13 | 84 | 54-126 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 101 | 48-128 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|---------------|
| Lab #: | 203766 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 3550B |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 139016 |
| MSS Lab ID: | 203793-001 | Sampled: | 06/06/08 |
| Matrix: | Soil | Received: | 06/06/08 |
| Units: | mg/Kg | Prepared: | 06/07/08 |
| Basis: | as received | Analyzed: | 06/09/08 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC445467

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | 19.04 | 49.95 | 68.21 | 98 | 34-144 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 107 | 48-128 |

Type: MSD Lab ID: QC445468

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 49.99 | 73.43 | 109 | 34-144 | 7 | 47 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 113 | 48-128 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203766 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3550B |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC445686 | Batch#: | 139068 |
| Matrix: | Soil | Prepared: | 06/09/08 |
| Units: | mg/Kg | Analyzed: | 06/10/08 |
| Basis: | as received | | |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 49.93 | 45.04 | 90 | 54-126 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 107 | 48-128 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|---------------|
| Lab #: | 203766 | Location: | Hanson Radium |
| Client: | LFR Levine Fricke | Prep: | EPA 3550B |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 139068 |
| MSS Lab ID: | 203795-007 | Sampled: | 06/04/08 |
| Matrix: | Soil | Received: | 06/06/08 |
| Units: | mg/Kg | Prepared: | 06/09/08 |
| Basis: | as received | Analyzed: | 06/10/08 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC445687

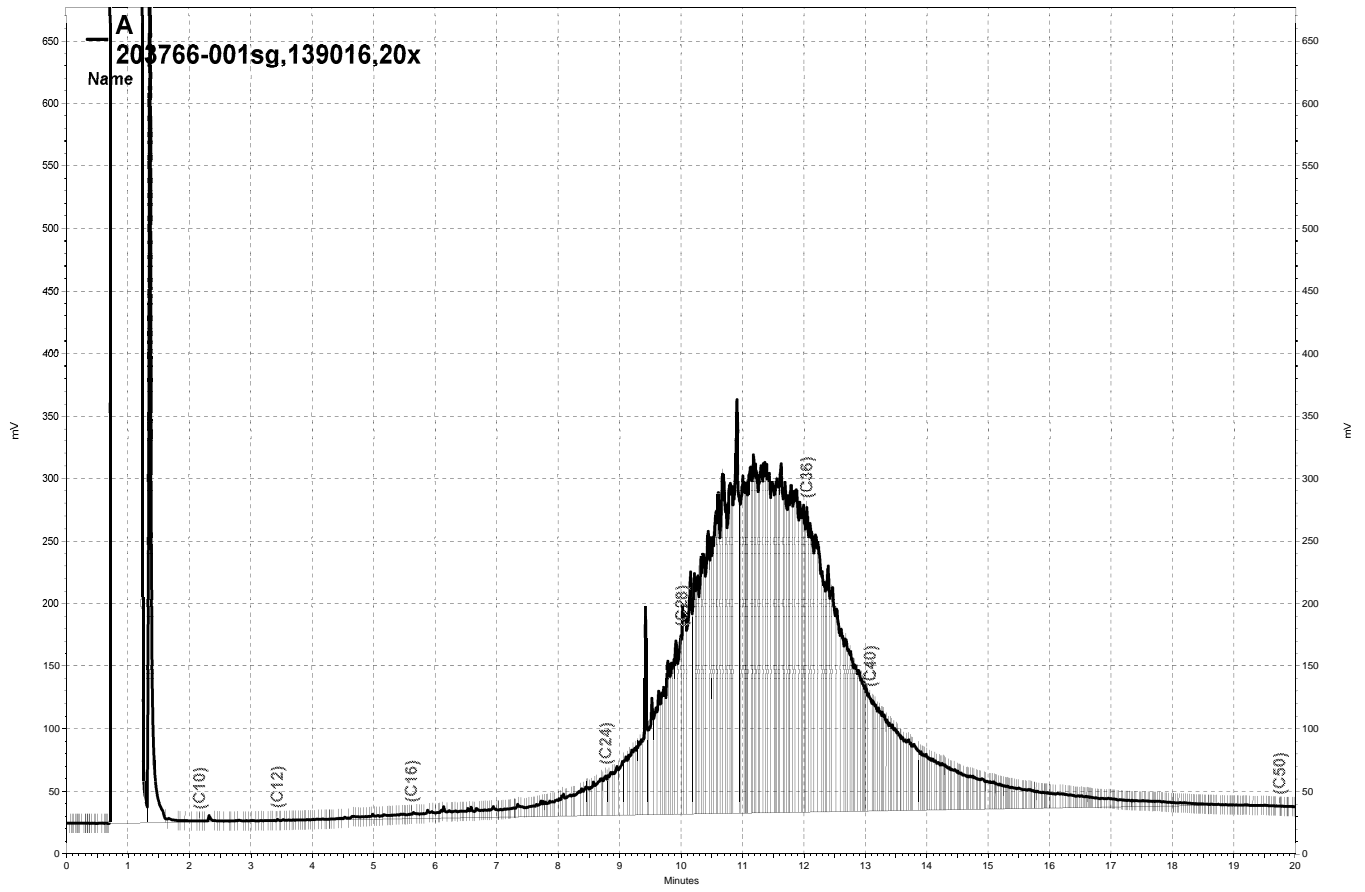
| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | 16.02 | 49.79 | 48.93 | 66 | 34-144 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 81 | 48-128 |

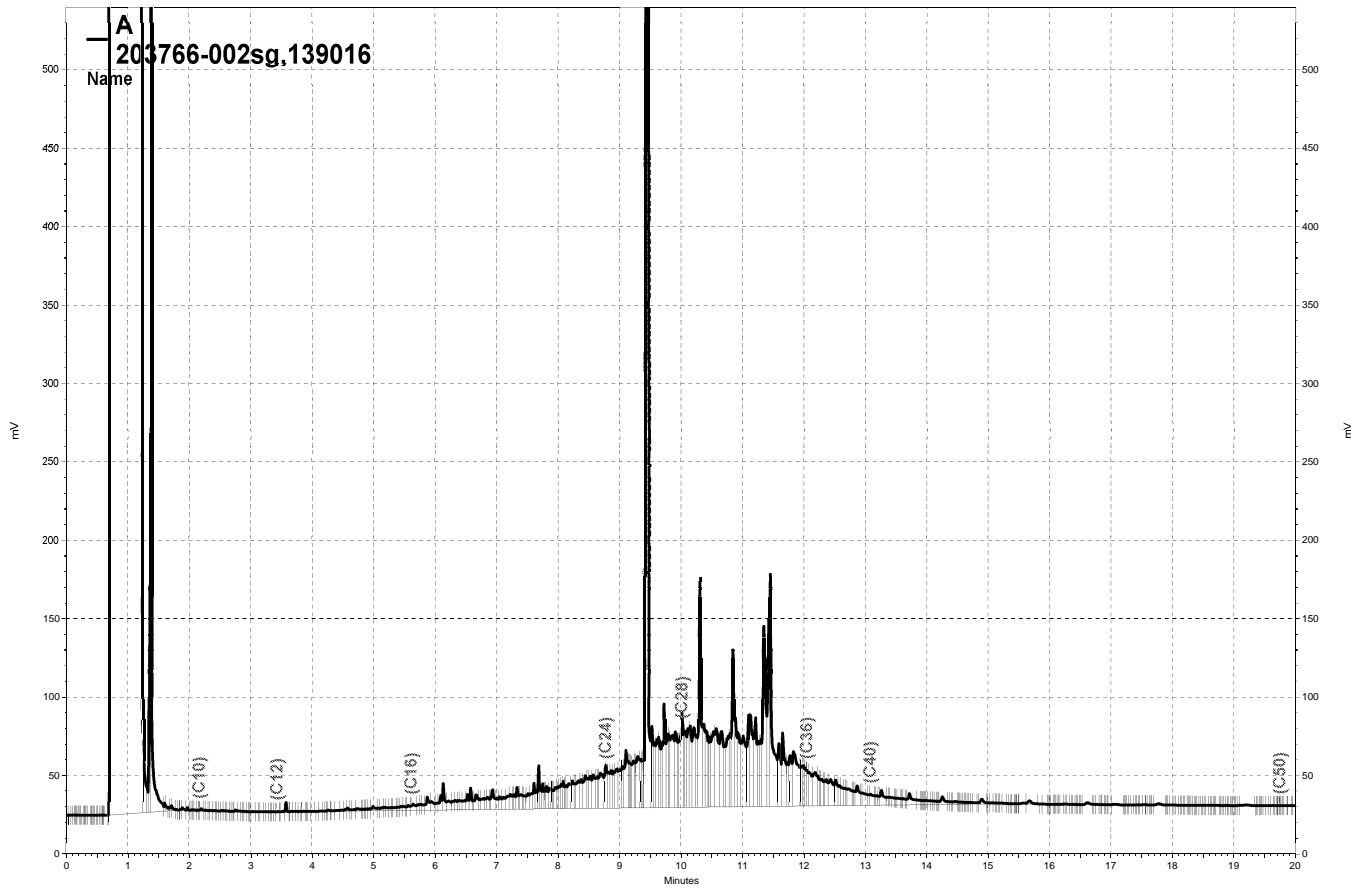
Type: MSD Lab ID: QC445688

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 49.90 | 51.87 | 72 | 34-144 | 6 | 47 |

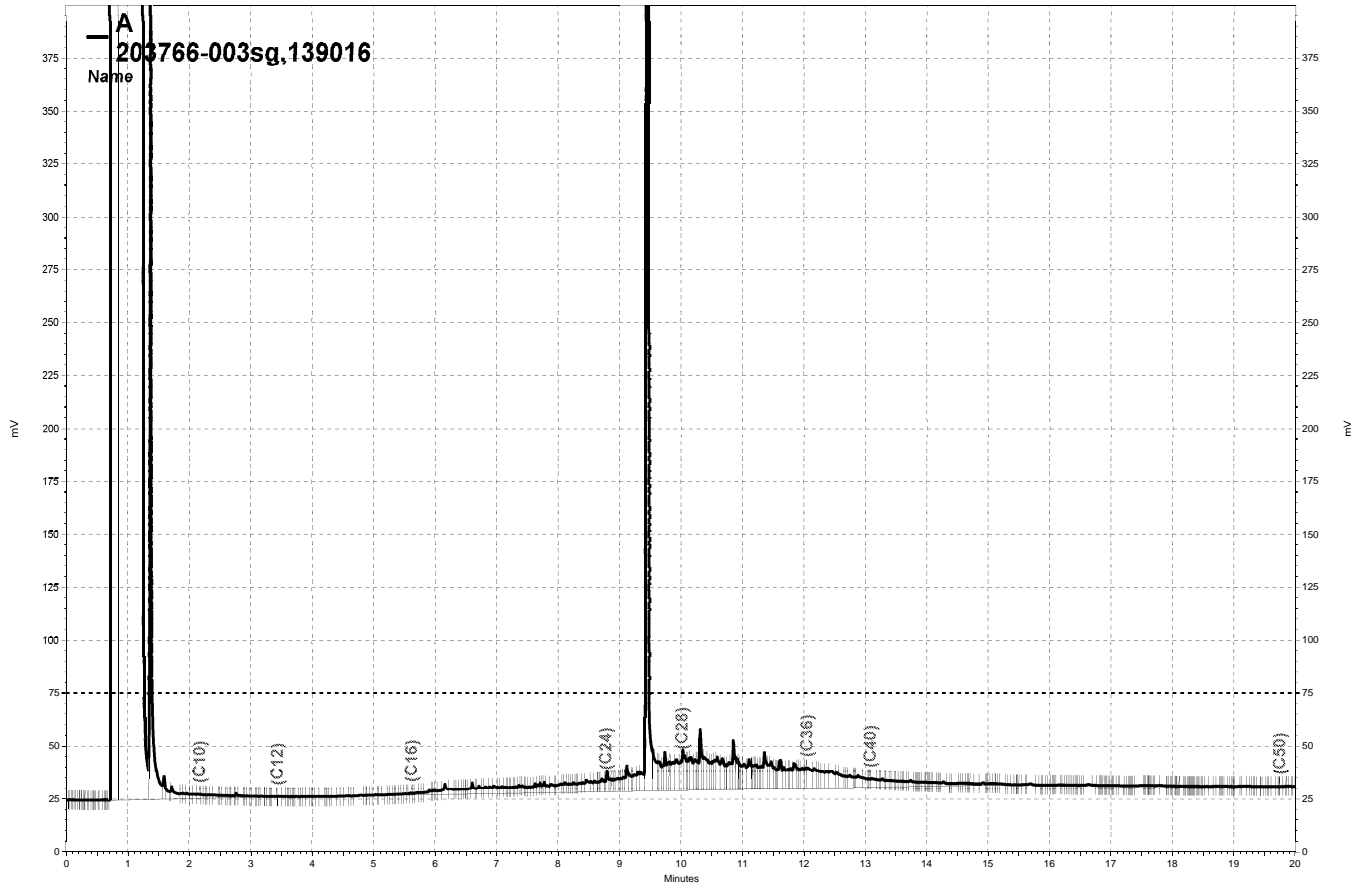
| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 91 | 48-128 |



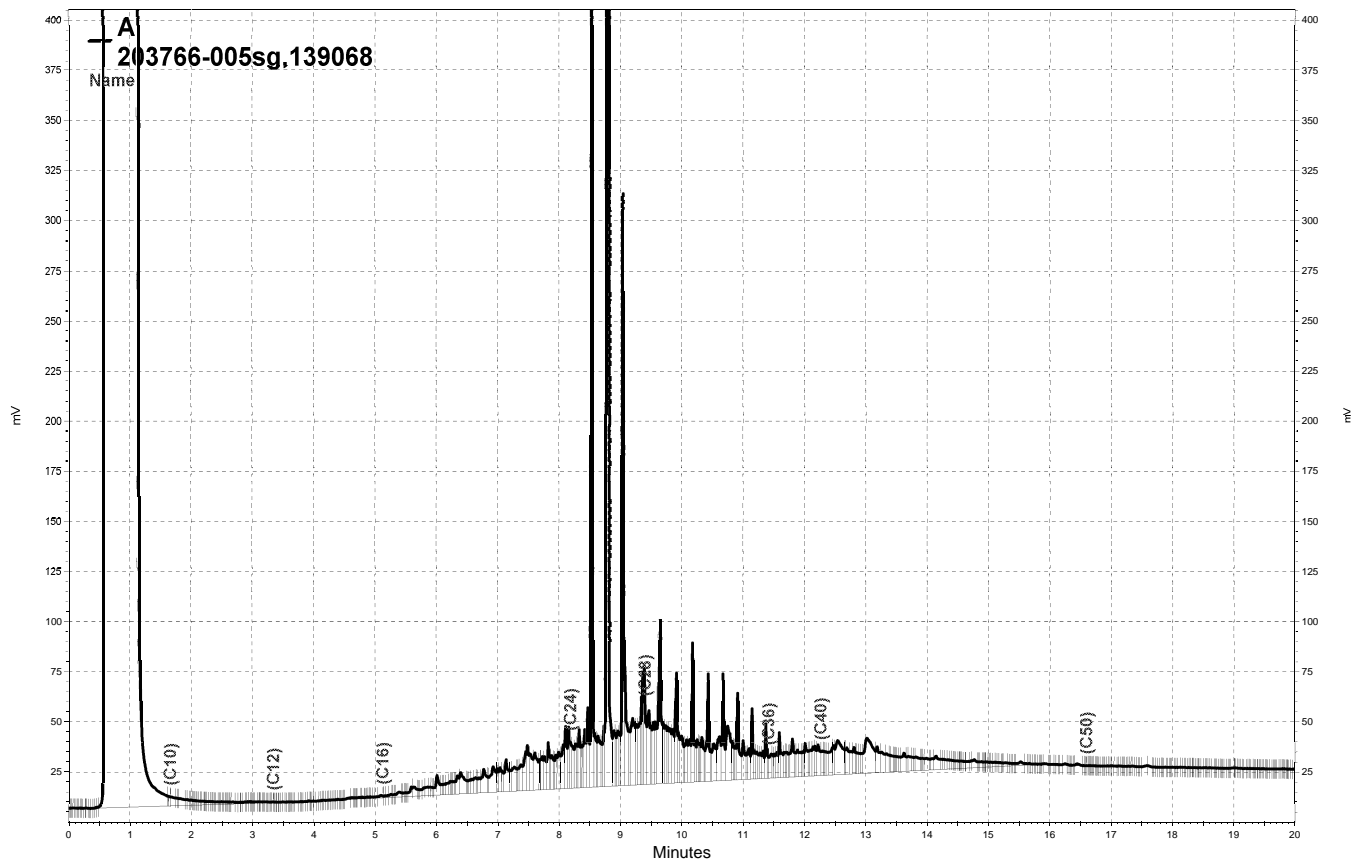
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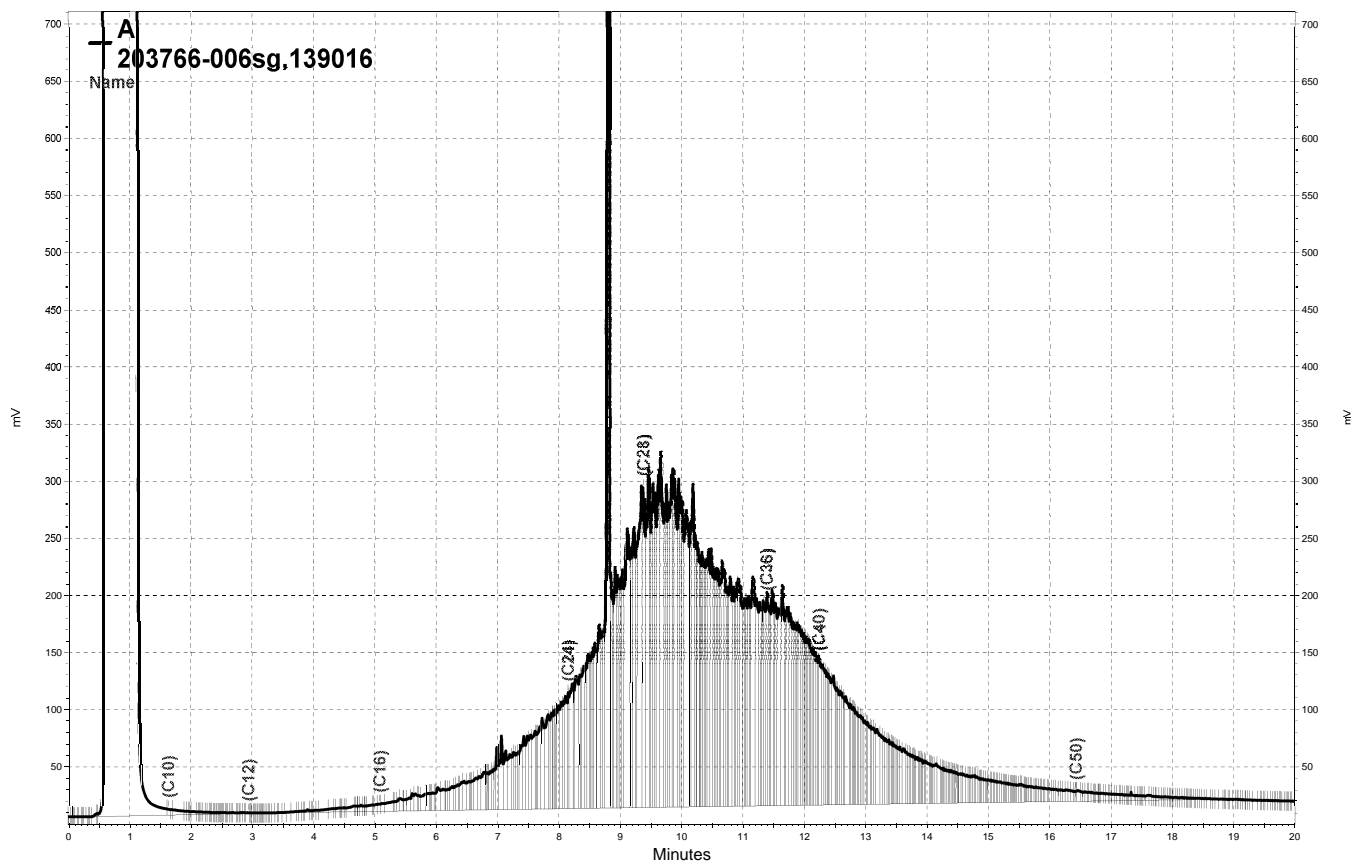
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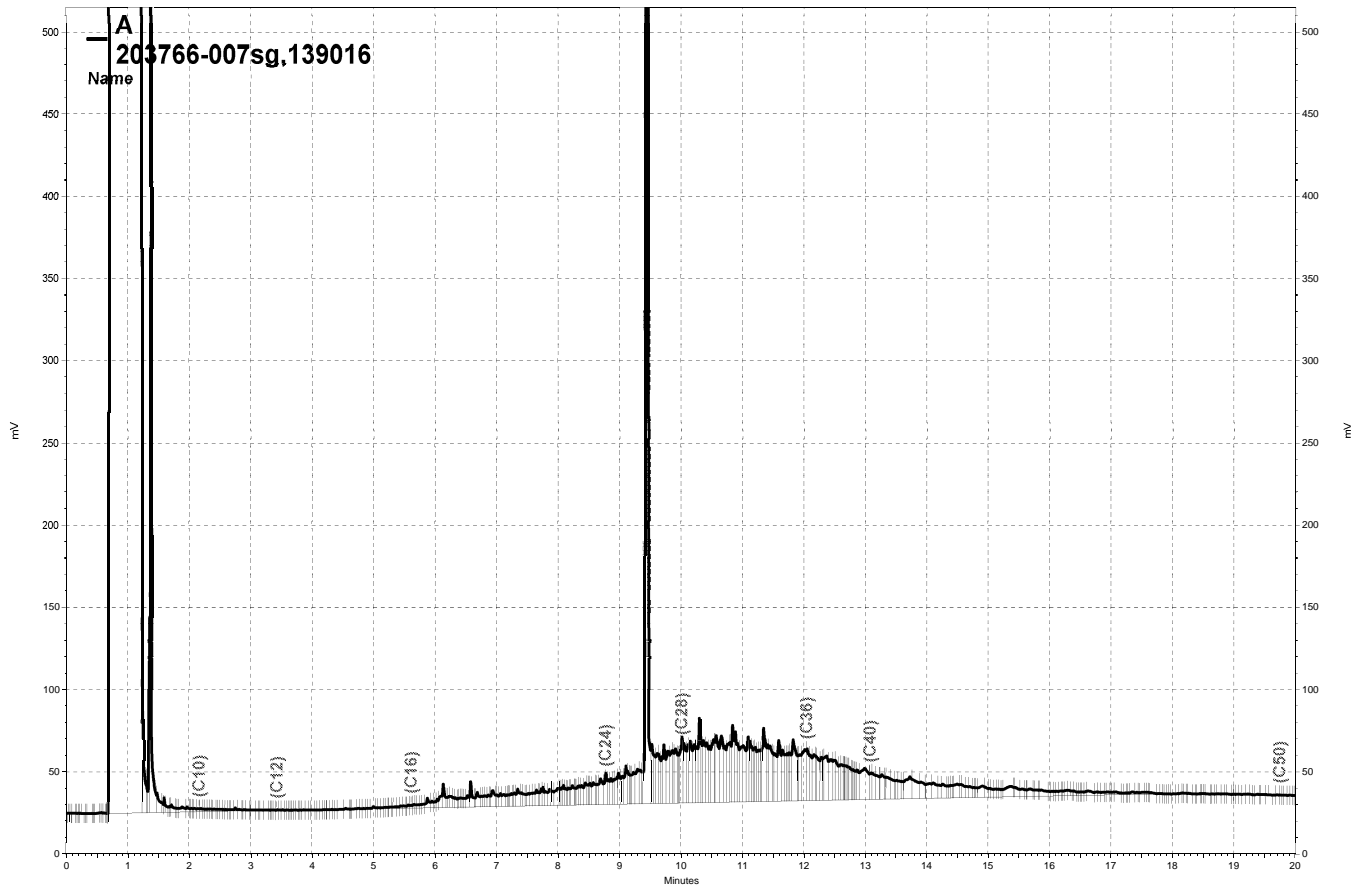
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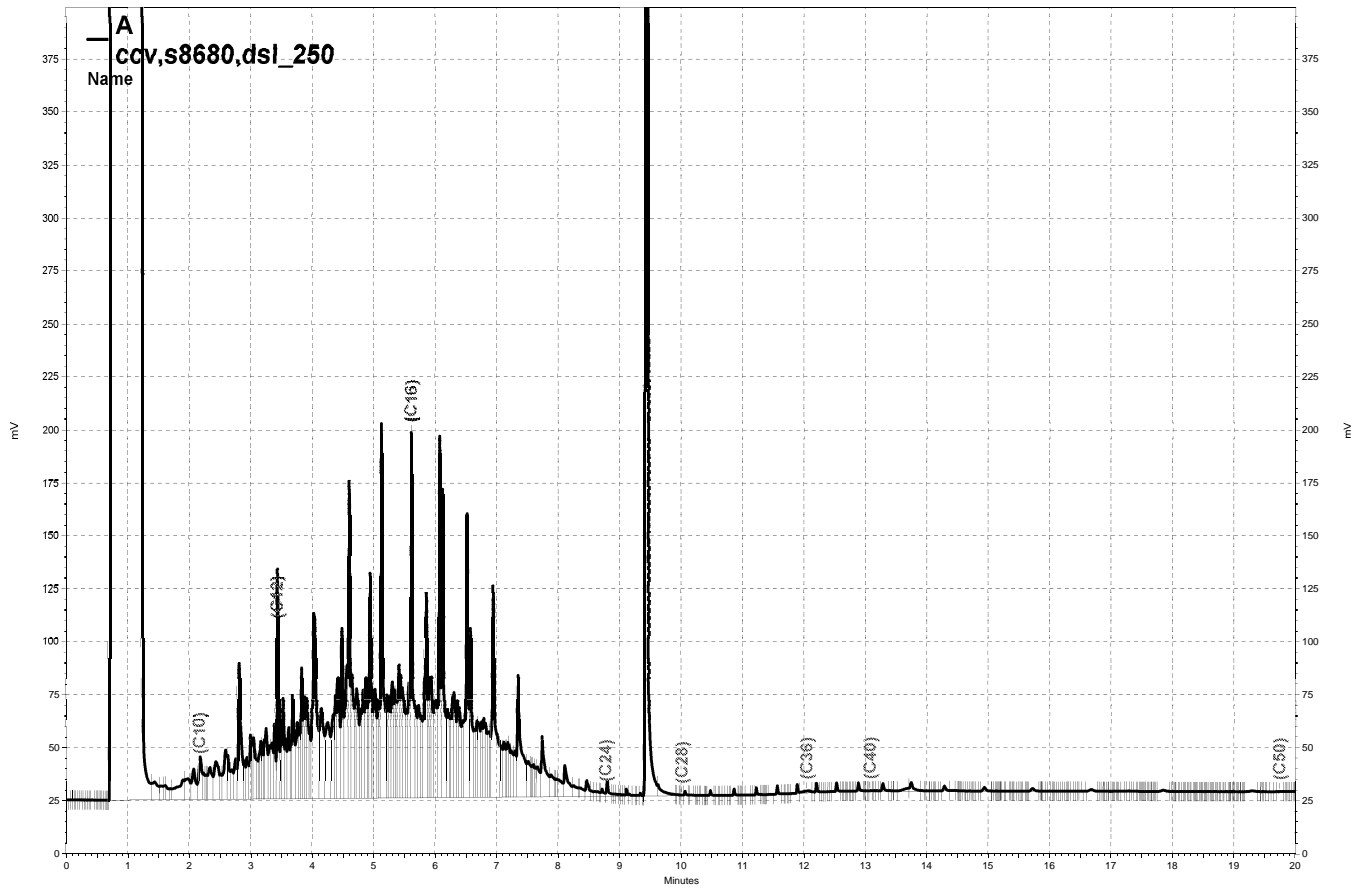
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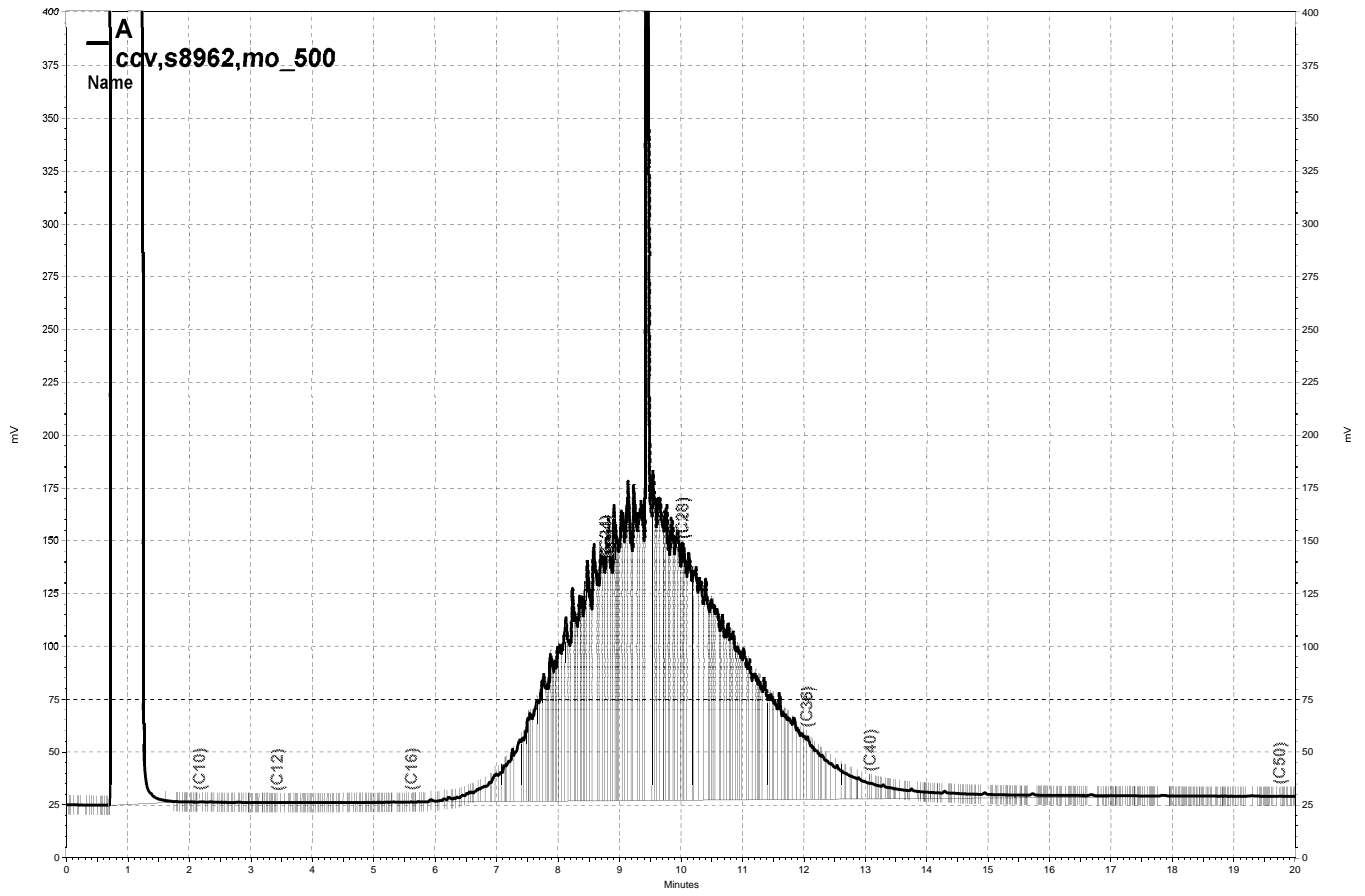
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Total Extractable Hydrocarbons

| | | | |
|-----------|-------------------|-----------|--------------|
| Lab #: | 203766 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Field ID: | MW-1(SS123)-63.0 | Sampled: | 05/22/08 |
| Units: | ug/L | Received: | 05/23/08 |
| Diln Fac: | 1.000 | Prepared: | 06/09/08 |
| Batch#: | 139080 | Analyzed: | 06/11/08 |

Type: SAMPLE Matrix: WET DI Leachate
 Lab ID: 203766-006 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 76 | 63-130 |

Type: BLANK Matrix: Water
 Lab ID: QC445729 Cleanup Method: EPA 3630C

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 100 | 63-130 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203766 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC445730 | Batch#: | 139080 |
| Matrix: | Water | Prepared: | 06/09/08 |
| Units: | ug/L | Analyzed: | 06/11/08 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 1,891 | 76 | 61-120 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 92 | 63-130 |

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------|-----------|--------------|
| Lab #: | 203766 | Location: | Hanson Radum |
| Client: | LFR Levine Fricke | Prep: | EPA 3520C |
| Project#: | 001-09567-01 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 139080 |
| MSS Lab ID: | 203772-004 | Sampled: | 06/04/08 |
| Matrix: | Water | Received: | 06/05/08 |
| Units: | ug/L | Prepared: | 06/09/08 |
| Diln Fac: | 1.000 | Analyzed: | 06/11/08 |

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC445731

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|----------------|------------|--------|--------|------|--------|
| Diesel C10-C24 | 41.63 | 2,500 | 1,537 | 60 | 58-126 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 77 | 63-130 |

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC445732

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 1,861 | 73 | 58-126 | 19 | 31 |

| Surrogate | %REC | Limits |
|------------|------|--------|
| Hexacosane | 93 | 63-130 |

RPD= Relative Percent Difference

CT#
203766

Table 1
AOC 8 - Soil and Grab Groundwater Sample Matrix
Hanson Radum
3000 Busch Road, Pleasanton, California

| | C&T C&T Login Number | Sample ID | Original LFR Sample ID | Revised LFR Sample ID | Date Sample Collected | Matrix | TPHd/mo w/silica gel clean up | C&T | DI-WEI TPHd/mo w/silica gel clean up | C&T | BTEX (ggw only) | C&T |
|---|----------------------------|--------------|---------------------------|-----------------------|--------------------------|--------|-------------------------------------|---------------|---|----------------|-----------------------|------|
| | 203423 | 1 | F5-SS-5.0 | SS123(F5)-5.0 | 5/19/2008 | Soil | X | | | | | |
| | 203423 | 2 | F5-SS-10.0 | SS123(F5)-10.0 | 5/19/2008 | Soil | X | | X | | | |
| | 203423 | 3 | F5-SS-15.0 | SS123(F5)-15.0 | 5/19/2008 | Soil | X | | | | | |
| 1 | 203423 | 4 | F5-SS-18.0 | SS123(F5)-18.0 | 5/19/2008 | Soil | Hold | Take off hold | Hold | 203766-001 | | |
| | 203423 | 5 | F5-SS-21.0 | SS123(F5)-21.0 | 5/19/2008 | Soil | X | | | | | |
| 2 | 203423 | 6 | F5-SS-50.0 | SS123(F5)-50.0 | 5/19/2008 | Soil | Hold | Take off hold | | -002 | | |
| | 203423 | 7 | F5-SS-66.0 | SS123(F5)-66.0 | 5/19/2008 | Soil | X | | | | | |
| | 203423 | 8 | F5-GGW-25.0 | SS123(F5)-GGW-25.0 | 5/19/2008 | GGW | X | | | | X | |
| | 203423 | 9 | MW-2-GGW-23.0 | MW-2(SS123)-GGW-23.0 | 5/20/2008 | GGW | X | | | | X | |
| | 203423 | 10 | MW-2-SS-5.0 | MW-2(SS123)-5.0 | 5/20/2008 | Soil | X | | | | | |
| | 203423 | 11 | MW-2-SS-10.0 | MW-2(SS123)-10.0 | 5/20/2008 | Soil | X | | | | | |
| | 203423 | 12 | MW-2-SS-14.0 | MW-2(SS123)-14.0 | 5/20/2008 | Soil | X | | X | Pls analyze | DONE | |
| | 203423 | 13 | MW-2-SS-20.0 | MW-2(SS123)-20.0 | 5/20/2008 | Soil | X | | | Do not analyze | DONE | |
| 3 | 203423 | 14 | MW-2-SS-65.0 | MW-2(SS123)-65.0 | 5/20/2008 | Soil | Hold | Take off hold | | -003 | | |
| | 203423 | 15 | MW-2-SS-74.0 | MW-2(SS123)-74.0 | 5/20/2008 | Soil | X | | | | | |
| 4 | 203423 | 16 | MW-2-SS-78.0 | MW-2(SS123)-78.0 | 5/20/2008 | Soil | Hold | Take off hold | | -004 | | |
| 5 | 203557 | 1 | MW-2-GGW-75.0 | MW-2(SS123)-GGW-75.0 | 5/21/2008 | GGW | Hold | Take off hold | | -005 | Hold | Hold |
| | 203557 | 2 | Equipment Blank | Equipment Blank | 5/21/2008 | GGW | Hold | | | | | |
| | 203530 | 1 | MW-1-SS-5.0 | MW-1(SS123)-5.0 | 5/21/2008 | Soil | X | | | | | |
| | 203530 | 2 | MW-1-SS-13.0 | MW-1(SS123)-13.0 | 5/21/2008 | Soil | | Pls analyze | X | | DONE | |
| 6 | 203530 | 3 | MW-1-SS-63.0 | MW-1(SS123)-63.0 | 5/22/2008 | Soil | Hold | Take off hold | Hold | Take off hold | | |
| 7 | 203530 | 4 | MW-1-SS-79.0 | MW-1(SS123)-79.0 | 5/22/2008 | Soil | Hold | Take off hold | | -007 | | |
| | TBD | 1 | - na - | MW-1(SS123)-50.0 | 5/22/2008 | Soil | | Pls analyze | | Pls analyze | DONE | |
| | 203533 | 1 | MW-1-GGW-18.0 | MW-1(SS123)-GGW-18.0 | 5/21/2008 | GGW | X | | | | X | |
| | 203532 | 1 | MW-3-SS-5.0 | MW-3(SS123)-5.0 | 5/22/2008 | Soil | X | | | | | |
| | 203532 | 2 | MW-3-SS-10.0 | MW-3(SS123)-10.0 | 5/22/2008 | Soil | X | | | | | |
| | 203532 | 3 | MW-3-SS-15.0 | MW-3(SS123)-15.0 | 5/22/2008 | Soil | X | | | | | |
| | 203532 | 4 | MW-3-SS-20.0 | MW-3(SS123)-20.0 | 5/22/2008 | Soil | X | | | | | |
| | 203532 | 5 | MW-3-SS-25.0 | MW-3(SS123)-25.0 | 5/22/2008 | Soil | Hold | | | | | |
| | 203532 | 6 | MW-3-SS-30.0 | MW-3(SS123)-30.0 | 5/22/2008 | Soil | Hold | | | | | |
| | 203532 | 7 | MW-3-SS-35.0 | MW-3(SS123)-35.0 | 5/22/2008 | Soil | Hold | | | | | |
| | 203532 | 8 | MW-3-SS-42.0 | MW-3(SS123)-42.0 | 5/22/2008 | Soil | Hold | | | | | |
| | 203532 | 9 | MW-3-SS-47.0 | MW-3(SS123)-47.0 | 5/22/2008 | Soil | Hold | | | | | |
| | 203532 | 10 | MW-3-SS-55.0 | MW-3(SS123)-55.0 | 5/22/2008 | Soil | Hold | | | | | |
| | 203529 | 1 | SS123-F4-13 | SS123(F4)-13.0 | 5/22/2008 | Soil | X | | X | | | |
| | 203529 | 2 | SS123-F4-18 | SS123(F4)-18.0 | 5/22/2008 | Soil | X | | | | | |

APPENDIX D

**Groundwater Monitoring Well
Development and Sampling Field Sheets**

Project No. 001-09567-01-002 Date: 5/29/08 Page 1 of 1

Project Name: Hanon Radon Sampling Location: MW-43

Sampler's Name: ELW Sample No.: MW-43 FB

Sampling Plan By: LL Dated: _____ C.O.C. No.: _____ DUP

Purge Method: Centrifugal Pump Disposable Bailor Hand Bail Submersible Pump Teflon Bailor Other _____

Purge Water Storage Container Type: 55 gal Drum Storage Location: on site

Date Purge Water Disposed: _____ Where Disposed: _____

| Analyses Requested | No. and Type of Bottles Used |
|--------------------|------------------------------|
| | |
| | |
| | |

Lab Name: _____

Delivery By Courier _____ Hand _____

Well No. MW-4 MW-3 Depth of Water 41.49

Well Diameter: 2 Well Depth 73.81

2" (0.16 gal/foot) 5" (1.02 gal/foot) Water Column Height 32.32

4" (0.65 gal/foot) 6" (1.47 gal/foot) Well Volume 5.17

80% DTW

ms/cm

| Time | Inlet Depth | Depth to Water | Volume Purged (gal) | Totalizer Reading | Temperature (C°) | PH (SU) | Cond (µmhos) | Turb (NTU) | Remarks |
|-------------|-------------|----------------|---------------------|-------------------|---|---------|--------------|------------|--------------------------|
| 900 | | 41.49 | | | | | | | start |
| 914 | | | 2.5 | | 18.12 | 7.51 | 0.732 | 71000 | Bailing |
| 929 | | 64.05 | 5 | | 17.63 | 7.96 | 0.741 | 71000 | |
| 935 - 1030 | | | | | Surge | DTW @ | 1030 | | 60.90 |
| 1032 | | | 7.5 | | 17.81 | 8.13 | 1.14 | 71000 | Bailing |
| 1046 | | 68.71 | 10 | | 17.41 | 8.06 | 1.46 | 71000 | |
| | | | | | pump setup | | | | |
| 1135 | | | ~12 | | 20.12 | 8.89 | 1.53 | 71000 | |
| 1146 | | | | | Recharging - Pumpoff (well down, tired) | | | | |
| 1240 - 1250 | | | | | Pumping | | | | |
| 1335 | | 64.93 | | | | | | | pumping slow |
| 1343 | | | ~14 | | 21.60 | 8.09 | 1.33 | 71000 | stop pump #1040 |
| 1502 | | | ~14.5 | | 20.69 | 7.98 | 1.39 | 71000 | Bailing in creviced pump |
| 1607 | | 65.59 | | | Before Bailing | | | | |
| 1611 | | | ~14.5 | | 18.92 | 7.96 | 0.131 | 71000 | |
| 1630 | | 71.54 | 17 | | 19.67 | 8.14 | 1.30 | 71000 | |

Continue remarks on reverse, if needed.

(MS/ing)

DTB 73.74

2.100 mL/baiter

Project No. 001-09567-01-002 Date: 5/29/08 Page 1 of

Project Name: Hanson Radium Sampling Location: MW-4

Sampler's Name: 6NW Sample No.: MW-4 FB

Sampling Plan By: LL Dated: C.O.C. No.: DUP

Purge Method: Centrifugal Pump Disposable Bailor Hand Bail Submersible Pump Teflon Bailor Other Steel Bailor

Purge Water Storage Container Type: 55 gal Drum Storage Location:

Date Purge Water Disposed: Where Disposed:

Analyses Requested No. and Type of Bottles Used

Lab Name:

Delivery By Courier Hand

Well No. MW-4 Depth of Water 22.02

Well Diameter: 2 Well Depth 30.34

2" (0.16 gal/foot) 5" (1.02 gal/foot) Water Column Height 4.32

4" (0.65 gal/foot) 6" (1.47 gal/foot) Well Volume 1.33

80% DTW

ms/cm

| Time | Inlet Depth | Depth to Water | Volume Purged (gal) | Totalizer Reading | Temperature (C°) | PH (SU) | Cond (µmhos) | Turb (NTU) | Remarks |
|-------------|-------------|----------------|---------------------|-------------------|------------------|---------|--------------|------------|-----------------------------------|
| 1206 | | 22.02 | | | | | | | Start Bailing |
| 1213 | | 23.06 | 0.75 | | 14.93 | 7.64 | 3.07 | 71000 | |
| 1215 - 1305 | | | Surge | | | | | | |
| 1315 | | | 1.5 | | 19.40 | 7.53 | 2.87 | 71000 | Bailing |
| 1320 | | | 2.25 | | 18.27 | 7.50 | 2.89 | 71000 | |
| 1325 | | | 3 | | 16.25 | 7.53 | 2.88 | 71000 | |
| 1332 | | | 3.75 | | 14.32 | 7.55 | 2.86 | 71000 | |
| 1340 | | | | | | | | | Setting up Pump |
| 1405 | | | 4.5 | | 20.24 | 7.72 | 2.73 | 71000 | |
| 1410 | | | | | | | | | De-aerated |
| 1458 | | 26.50 | 5.25 | | 20.27 | 7.67 | 2.59 | 71000 | brief pumping before pump removal |
| 1514 | | 27.50 | | | | | | | |
| 1521 | | | 6 | | 19.29 | 7.70 | 2.29 | 71000 | Bailing |
| 1524 | | | 6.75 | | 18.59 | 7.52 | 2.24 | 71000 | |
| 1540 | | 29.40 | 7.5 | | 18.77 | 7.44 | 2.14 | 71000 | 150 mL/baiter. DTB 30.34 |

Continue remarks on reverse, if needed.

Project No. 001-09567-06 Date: 5/30/08 Page 1 of 1

Project Name: HANSON RIDGE Sampling Location: AOC#8

Sampler's Name: LARRY LAPUYA DS Sample No.: _____ FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP

Purge Method: Centrifugal Pump Disposable Bailor Hand Bail Submersible Pump Teflon Bailor Other _____

Purge Water Storage Container Type: 55-GAL (n) Drum Storage Location: near well

Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested _____ No. and Type of Bottles Used _____

Lab Name: _____

Delivery By Courier _____ Hand _____

Well No. MW-3 (Deep well) Depth of Water 45.65

Well Diameter: 2 Well Depth 73.70

2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height 28.05

4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume 4.5 GAL

$$\begin{array}{r}
 73.70 \\
 45.65 \\
 \hline
 28.05 \\
 4 \times 16 \\
 \hline
 168.30 \\
 28.05 \\
 \hline
 4.4880
 \end{array}$$

 80% DTW _____

| Time | Inlet Depth | Depth to Water | Volume Purged (gal) | Totalizer Reading | Temperature (C°) | PH (SU) | Cond (uS/cm) | Turb (NTU) | Remarks |
|-------|-------------|----------------|---------------------|-------------------|------------------|---------|--------------|------------|-----------------|
| 10:05 | | 45.65 | | | | | | | Well Depth 73.7 |
| 11:01 | | | | | | | | | Begin Bailing |
| 11:58 | | | 4.5 | | 20.37 | 8.27 | 1.19 | -5.0 | TURBID |
| 12:40 | | 72.80 | 8.5 | | 20.00 | 8.37 | 1.27 | -5.0 | TURBID |
| 13:37 | | 68.43 | | | | | | | |
| | 4 FT | 1 in | | | | | | | |
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Continue remarks on reverse, if needed.

Project No. 00109567-06 Date: 5/30/08 Page 1 of 1

Project Name: HANSON Radium AOC#8 Sampling Location: AOC#8

Sampler's Name: LARRY WYMADE Sample No.: _____ FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP

Purge Method: Centrifugal Pump Disposable Bailor Hand Bail Submersible Pump Teflon Bailor Other _____

Purge Water Storage Container Type: 55-GALLON DRUM Storage Location: Near well

Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested _____ No. and Type of Bottles Used _____

Lab Name: _____

Delivery By Courier _____ Hand _____

Well No. MW-4 (sum low) Depth of Water 22.10

Well Diameter: 2 Well Depth 30.40

2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height 8.30

4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume 1.33 (6 Bailors)

```

30.40
- 22.10
-----
 8.30
  x 1.16
-----
 4980
  830
-----
13280

80% DTW _____
    
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| Time | Inlet Depth | Depth to Water | Volume Purged (gal) | Totalizer Reading | Temperature (C°) | PH (SU) | Cond (µS/cm) | Turb (NTU) | Remarks |
|-------|-------------|----------------|---------------------|-------------------|------------------|---------|--------------|------------|----------------------|
| 10:00 | | 22.10 | | | 19.40 | 7.65 | 1.84 | -5.0 | well depth 30.4 |
| 10:15 | | | | | | 7.56 | | | |
| 10:26 | | | 1 GAL | | 19.40 | 7.56 | 1.84 | -5.0 | TURBID |
| 10:31 | | | 3 ≈ 11.4L | | 18.48 | 7.62 | 1.84 | -5.0 | TURBID |
| 10:35 | | 25.65 | | | | | | | |
| 10:36 | | | | | | | | | Begin with 3 Bailors |
| 10:43 | | 28.40 | 5 | | 19.21 | 7.85 | 1.83 | -5.0 | TURBID |
| 11:21 | | 26.00 | | | | | | | |
| 12:40 | | 23.73 | | | | | | | |
| 12:57 | | 28.60 | 8.5 | | 19.10 | 7.89 | 1.70 | -5.0 | TURBID |
| 13:10 | | 27.43 | | | | | | | |
| 13:36 | | 26.27 | | | | | | | |
| | | | | | | | | | |
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Continue remarks on reverse, if needed.

Project No. 001-09567-06 Date: 6/9/08 Page 1 of 1

Project Name: Hanson Radon Sampling Location: 55 123 Area / AOC 8

Sampler's Name: M. Sullivan Sample No.: MW-3 FB

Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP _____

Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____

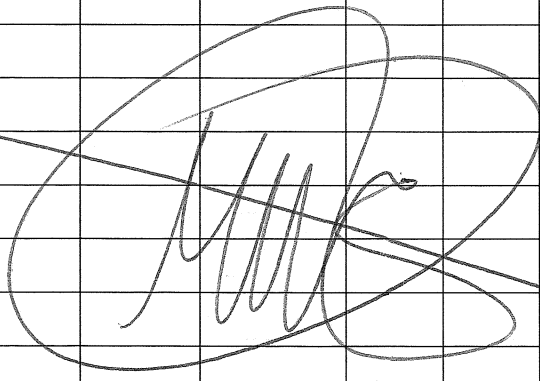
Purge Water Storage Container Type: 55 gallon drum Storage Location: onsite

Date Purge Water Disposed: _____ Where Disposed: _____

| | |
|---|------------------------------|
| Analyses Requested | No. and Type of Bottles Used |
| <u>TPH & mo (8015M)</u> | <u>1 Amber</u> |
| <u>BTEX (8021)</u> | <u>3 VOAs w/ HCl</u> |
| Lab Name: <u>C&T</u> | |
| Delivery By <input type="checkbox"/> Courier <input checked="" type="checkbox"/> Hand | |

Well No. MW-3 Depth of Water 40.18
 Well Diameter: 2" Well Depth ~73', 70
 2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height 33.52
 4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume ~5.36

80% DTW _____

| Time | Inlet Depth | Depth to Water | Volume Purged (gal) | Totalizer Reading | Temperature (C°) | PH (SU) | Cond (µS/cm) | Turb (NTU) | Remarks |
|--|-------------|----------------|---------------------|-------------------|------------------|-------------|--------------|-------------|---------------------------|
| | <u>63'</u> | <u>40.18</u> | | | | | | | <u>Start DTW w/o pump</u> |
| <u>1117</u> | <u>63'</u> | <u>42.90</u> | | | | | | | <u>DTW w/ pump</u> |
| <u>1120</u> | <u>"</u> | <u>43.70</u> | <u>~ 50ml/min</u> | | <u>21.01</u> | <u>7.89</u> | <u>1.08</u> | <u>15.6</u> | |
| <u>1125</u> | <u>"</u> | <u>44.13</u> | | | <u>21.07</u> | <u>7.90</u> | <u>1.08</u> | <u>22.6</u> | |
| <u>1128</u> | <u>"</u> | <u>44.4</u> | | | <u>21.16</u> | <u>7.93</u> | <u>1.08</u> | <u>21.2</u> | <u>Pump stalling</u> |
| <u>1131</u> | <u>"</u> | <u>45.0</u> | | | <u>20.88</u> | <u>7.95</u> | <u>1.08</u> | <u>21.7</u> | |
| <u>1135</u> | | <u>48.2</u> | | | | | | | <u>Sample</u> |
|  | | | | | | | | | |

Continue remarks on reverse, if needed.

Project No. 001-09567-06 Date: 6/5/08 Page 1 of 1
 Project Name: Radon Sampling Location: RE MITA AOCB / SS 12B Area
 Sampler's Name: M. Sullivan Sample No.: MW-4 FB
 Sampling Plan By: _____ Dated: _____ C.O.C. No.: _____ DUP _____
 Purge Method: Centrifugal Pump Disposable Bailer Hand Bail Submersible Pump Teflon Bailer Other _____
 Purge Water Storage Container Type: 55 gal Drum Storage Location: onsite
 Date Purge Water Disposed: _____ Where Disposed: _____

Analyses Requested: TPH & mo (8015M) No. and Type of Bottles Used: 1 Amber
BTEX (8021) 3 VOAs w/HCl
 Lab Name: CDT
 Delivery By Courier Hand

Well No. MW-4 Depth of Water 22.15
 Well Diameter: 2" Well Depth 30.40
 2" (0.16 gal/feet) 5" (1.02 gal/feet) Water Column Height 8.25
 4" (0.65 gal/feet) 6" (1.47 gal/feet) Well Volume 1132

80% DTW _____
3 / cm

| Time | Inlet Depth | Depth to Water | Volume Purged (gal) | Totalizer Reading | Temperature (C°) | PH (SU) | Cond (#/cm) | Turb (NTU) | Remarks |
|--------------------------------|-------------|----------------|---------------------|-------------------|------------------|---------|-------------|------------|-------------------|
| 950 | 25.5' | 27.95 | | | | | | | Start DTW w/ Pump |
| 955 | " | 23.02 | | | 19.37 | 6.59 | 1.67 | 29.4 | |
| 958 | " | 23.07 | | | 19.42 | 6.82 | 1.67 | 26.9 | |
| 1001 | " | 23.12 | | | 19.62 | 7.01 | 1.67 | 28.8 | |
| 1004 | " | 23.17 | | | 19.81 | 7.11 | 1.67 | 28.6 | Pump is Stalling |
| 1007 | " | 13.15 | | | 19.96 | 7.26 | 1.66 | 26.8 | |
| 1010 | " | 13.19 | | | 20.01 | 7.29 | 1.66 | 41.3 | |
| 1013 | " | 13.23 | | | 20.06 | 7.31 | 1.66 | 38.3 | |
| 1015 | | 13.45 | | | | | | | Sample |
| <i>[Handwritten Signature]</i> | | | | | | | | | |

Continue remarks on reverse, if needed.