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Combined Well Installation and Groundwater Monitoring Report for the Period of April 1 through June 30, 2008 Former Hot Mix Asphalt Plant Area (AOC #1) Hanson Aggregates Radum Facility 3000 Busch Road, Pleasanton, California ACEH Case #RO0002941 and Geotracker Global ID # SLT19719376

> July 23, 2008 001-09567-07

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

Prepared by LFR Inc. 1900 Powell Street, 12<sup>th</sup> Floor Emeryville, California 94608



July 23, 2008

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

#### Subject: Combined Well Installation and Groundwater Monitoring Report for the Period of April 1 through June 30, 2008, Former Hot Mix Asphalt Plant Area (AOC #1), Hanson Aggregates Radum Facility, 3000 Busch Road, Pleasanton, California, ACEH Case #RO0002941 and Geotracker Global ID # SLT19719376

Dear Mr. Wickham:

The enclosed "Combined Well Installation and Groundwater Monitoring Report" ("the Report") was prepared by LFR Inc. (LFR) on behalf of Hanson Aggregates West Region for the former hot mix asphalt plant area (located within area of concern [AOC] #1) of the Hanson Aggregates Radum Facility, located at 3000 Busch Road, Pleasanton, California ("the Site"). This Report presents and discusses the results of well installation and development activities completed during June 2008 and of the first of four planned quarterly groundwater monitoring events conducted at the Site.

The investigation and groundwater monitoring were conducted in accordance with the February 28, 2008 work plan approved by Alameda County Environmental Health in its technical comment letter dated March 31, 2008. Results are in agreement with previous investigation results and confirm that groundwater beneath the Site has not been affected by total petroleum hydrocarbons previously detected in limited areas of the Site. LFR plans to conduct the second groundwater monitoring event during third quarter 2008.

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

If you have any questions or comments concerning this Report, please call me at (925) 426-4170 or Katrin Schliewen of LFR at (510) 652-4500.

Sincerely,

Lee W. cm

Lee W. Cover Environmental Manager Hanson Aggregates Northern California

Attachment

# CONTENTS

CERTIFICATIONS	iii
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	5
3.0 METHODOLOGY	6
3.1 Groundwater Monitoring Well Installation	6
3.1.1 Pre-Field Activities	6
3.1.2 Drilling and Groundwater Monitoring Well Installation	6
3.1.3 Well Development	
3.1.4 Well Location Survey	
3.2 Quarterly Groundwater Monitoring	
3.2.1 Groundwater Elevation Monitoring	
3.2.2 Groundwater Well Purging and Sampling	
3.2.3 Quarterly Monitoring Laboratory Analyses	
4.0 RESULTS	
4.1 Depth-Discrete Soil Samples	
4.2 Groundwater Elevations	
4.2 Groundwater Analytical Results	
5.0 CONCLUSIONS AND RECOMMENDATIONS	15

6.0	LIMITATIONS	
70	DEEEDENCES	18

TABLES

- 1 Quarterly Groundwater Monitoring Sample Matrix
- 2 Groundwater Monitoring Well Construction Details
- 3 Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples Collected During Drilling in June 2008
- 4 Groundwater Monitoring Wells Analytical Results for Second Quarter 2008
- 5 Historical Data from Groundwater Monitoring Wells

#### FIGURES

- 1 Site Location Map
- 2 Property Showing Areas of Concern
- 3 Area of Concern #1 Site Plan and Sample Location Map
- 4 Area of Concern #1 TPH Concentrations in Soil and Grab Groundwater Samples
- 5 Area of Concern #1 Groundwater Monitoring Wells, Analytical Results, June 16, 2008
- Area of Concern #1 Groundwater Elevations and Equipotential Contours, June 16, 2008

#### APPENDICES

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

# CERTIFICATIONS

LFR Inc. has prepared this Combined Well Installation and Second Quarter 2008 Groundwater Monitoring 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.



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

Ron Goloubow Senior Associate Geologist

July 23, 2008 Date

July 23, 2008 Date

# **EXECUTIVE SUMMARY**

This "Combined Well Installation and Groundwater Monitoring Report for the period of April 1 through June 30, 2008" presents the results of well installation activities and the first quarterly groundwater monitoring event conducted by LFR Inc. (LFR) in the former hot mix asphalt plant area of the Hanson Aggregates Radum Facility ("the Site"). The primary objective of the well installation activities was to install three new groundwater monitoring wells to expand the groundwater monitoring well network at the Site, at the request of Alameda County Environmental Health (ACEH). This report also presents the results of the first of four planned quarterly groundwater monitoring events scheduled to be conducted at the Site.

The installation of the three new wells and the initiation of quarterly groundwater monitoring at the Site were conducted according to the scope of work described in the "Work Plan for Additional Well Installations and Quarterly Groundwater Monitoring and Reporting," submitted to ACEH on February 28, 2008 and approved by ACEH in a March 31, 2008 comment letter.

## Well Installation Activities

LFR successfully installed groundwater monitoring wells MW-8 through MW-10 during June 9 through 11, 2008. Wells MW-8 through MW-10 were installed to monitor groundwater immediately downgradient from the former truck scale (well MW-8), former soil boring B26 (well MW-9), and former soil boring B22 (well MW-10). The wells were constructed with wells screens intersecting first encountered groundwater, similarly to existing wells MW-1 through MW-7. The only evidence of petroleum hydrocarbons in soil observed during the installation of the wells was a black asphalt material in the soil samples collected between approximately 27 and 32 feet below ground surface from the soil boring drilled for well MW-9. The black asphalt material observed at this depth was consistent with the "deep" soil contamination encountered during previous subsurface investigations completed in the northern portion of the Site. Two depth-discrete soil samples were collected, one from within the affected soil interval and one from immediately beneath the affected soil interval. Analytical and investigation results confirm that the deep soil contamination is vertically limited, consists of heavy petroleum hydrocarbon material such as asphalt material, and appears to be relatively immobile.

## Quarterly Groundwater Monitoring Event

The groundwater monitoring event that was completed during this reporting period represents the first periodic groundwater monitoring event for the Site. Depth-to-groundwater measurements were made prior to sampling. Equipotential contours drawn based on groundwater elevations indicate that the local groundwater flow direction is

approximately to the west and northwest, with a horizontal groundwater gradient of approximately 0.015 to 0.025 foot per foot.

Wells MW-1 through MW-10 (except for well MW-4) were purged and sampled on June 16, 2008. Well MW-4 could not be sampled due to an insufficient amount of water in the well. Analytical results of groundwater samples collected during this monitoring period indicate that none of the compounds analyzed for were detected above laboratory reporting limits in any of the wells. The analytical results confirm that groundwater beneath the Site has not been affected by the total petroleum hydrocarbons (TPH) or TPH-related compounds detected in limited areas in soil.

The quarterly groundwater monitoring results are consistent with results from wells MW-1 through MW-7 previously monitored and sampled on October 22, 2007. LFR will conduct the second groundwater monitoring event during third quarter 2008 (July 1 through September 30, 2008). All groundwater samples collected will be analyzed for the same parameters analyzed for during the current quarter; in addition, samples collected from wells MW-3, MW-8, and MW-9 will be submitted for the analysis of dissolved metals.

# **1.0 INTRODUCTION**

This "Combined Well Installation and Groundwater Monitoring Report" presents the results of the well installation activities and groundwater monitoring activities conducted during the period of April 1 through June 30, 2008 by LFR Inc. (LFR) on behalf of Hanson Aggregates West Region ("Hanson") in the former hot mix asphalt plant area of the Hanson Aggregates Radum Facility located at 3000 Busch Road, Pleasanton, California ("the Site"; Figure 1). The groundwater monitoring event that was completed during this reporting period represents the first periodic groundwater monitoring and reporting event for the Site. The Site is located within area of concern #1 (AOC #1). Three new wells were installed to increase the groundwater monitoring network at the Site, and quarterly groundwater monitoring was initiated to monitor groundwater quality and groundwater flow direction and gradient for approximately one year.

The scope of work of the investigations conducted at the Site was described in the "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" ("the Work Plan"), which was submitted to Alameda County Environmental Health (ACEH) on February 28, 2008. ACEH approved the Work Plan on March 31, 2008 with one technical comment. In its approval letter, ACEH requested that, as part of the quarterly groundwater monitoring program, sampling for dissolved metals be conducted during the second quarterly groundwater monitoring event instead of the first as proposed in the Work Plan, to allow additional time to pass between installing the three new groundwater monitoring wells and sampling for dissolved metals.

LFR completed the well installation work during June 9 through 11, 2008, and conducted the first of four planned quarterly groundwater monitoring events on June 16, 2008. As requested by ACEH in its March 31, 2008 letter, this combined report presents both a summary of the well installation activities completed and the results of the quarterly groundwater monitoring event. 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 activities conducted.
- Section 4.0 presents and discusses the results of the well installation activities and of the first quarterly groundwater monitoring event.
- Section 5.0 summarizes the overall conclusions of environmental conditions at the Site based on the results of the well installation and groundwater monitoring completed and presents recommendations.

- Section 6.0 defines LFR's professional limitations.
- Section 7.0 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 Partners ("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 hydrocarbonaffected soil and groundwater in certain localized areas.

The Site consists primarily of the former hot mix asphalt plant area where historical activities included the use of paving oil, lubricants, and diesel fuel. Most of the structures associated with the former hot mix asphalt plant have been demolished. Currently visible at the Site are the concrete base of the truck scale, the base of the paving oil containment structure, several concrete pads, and miscellaneous debris. Standing water and petroleum product have been observed in the paving oil containment structure.

# 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 others at the Site have encountered unconsolidated sediments consisting predominantly of coarse-grained sediments (mostly gravels) and intervals of finer-grained sediments (clays and silts). Because of the historical aggregate mining activities throughout the property, some areas (including at the Site), likely contain fill material in addition to native sediment. The locations of the former mining pits are not well known or documented. In some soil borings advanced at the Site, particularly in the northern and western portions of the Site, approximately uniformly sized fine-grained gravel ("pea gravel") and concrete and metal pieces were encountered at depths up to approximately 35 feet bgs, indicative of historical mining pits subsequently filled with sorted aggregate material and/or debris.

Groundwater beneath the Site has been encountered approximately between 45 and 65 feet bgs in temporary soil borings advanced by LFR and other consultants during previous and the current investigations. Based on groundwater elevations in groundwater monitoring wells recently installed at the Site, the local groundwater flow direction appears to be generally to the west and northwest at a gradient of approximately 0.015 to 0.025 foot per foot.

# 2.3 Summary of Previous Site Investigations Conducted at the Site

Several subsurface investigations have been conducted throughout the Radum property and at the Site to date by various consultants, including Baseline Environmental Consulting, Brown & Caldwell, ENV, and LFR, on behalf of Hanson and of Legacy. The results of previous investigations, including various Phase I and Phase II ESAs conducted at the Site have been described extensively in reports prepared by ENV and LFR.

The most recent subsurface investigation conducted at the Site was completed by LFR during October 2007. The primary objectives of the characterization investigation were to: further characterize the lateral and/or vertical extent of petroleum hydrocarbons to the south, southwest, and northwest of the former asphalt plant; investigate the nature of the deep soil contamination identified in the northern half of the Site approximately between 30 to 40 feet bgs; and install groundwater monitoring wells to monitor groundwater flow and quality over time. These objectives were met by advancing 11 temporary soil borings to collect depth-discrete soil samples and grab groundwater samples for laboratory analyses, collecting samples from the free product encountered in the former paving oil structure and from the deep soil contamination for specialized leaching and fingerprinting analyses, and installing seven groundwater monitoring wells approximately around and in the vicinity of the former hot mix asphalt plant. The new wells were developed and surveyed, and initial groundwater samples were collected for laboratory analyses.

Based on the results from the October 2007 investigations and well installation activities, LFR concluded that:

- The lateral and/or vertical extent of petroleum hydrocarbons in soil had been sufficiently characterized at the Site.
- The deep soil contamination is relatively old, of limited extent, and immobile; was probably buried in place during historical mining operations; and is unlikely to further affect soil or significantly affect groundwater beneath the Site.
- The local groundwater flow direction in October 2007 was approximately to the west-northwest.
- Groundwater beneath the Site does not appear to have been significantly affected by total petroleum hydrocarbons (TPH) detected in soil beneath the Site.

LFR recommended initiation of a periodic groundwater monitoring and reporting program at the Site, comprised of sampling groundwater monitoring wells on a quarterly basis for approximately one year. If after one year of quarterly monitoring, no significant concentrations of compounds are detected in samples collected from the groundwater monitoring wells, groundwater monitoring should cease and the wells should be abandoned. In addition, LFR recommended that remaining debris and water and petroleum product in the paving oil containment structure be removed and properly

disposed of, and that shallow soils affected by petroleum hydrocarbons be removed and confirmation sampling be conducted. LFR submitted a summary report to ACEH on December 21, 2007, presenting the results of the October 2007 subsurface investigation and aforementioned recommendations (LFR 2007d).

# 2.4 Regulatory Determinations

Based on its review of the December 21, 2007 summary report prepared by LFR, ACEH generally concurred with the conclusions and recommendations in the LFR report in a comment letter dated January 11, 2008. In particular, ACEH concurred that no further depth-discrete soil or grab groundwater sampling to further characterize the nature and extent of contamination be conducted at the Site at this time. ACEH requested that three additional groundwater monitoring wells be installed at the Site and that a plan for quarterly groundwater monitoring be presented in a work plan. In accordance with the ACEH request, a plan for soil excavation, removal, and confirmation sampling was submitted under separate cover and the soil excavation scope of work is being conducted under a separate work plan and effort to be completed at a later date.

The February 28, 2008 Work Plan describing the scope of work to install three additional groundwater monitoring wells and to initiate quarterly groundwater monitoring at the Site was approved by ACEH in a comment letter dated March 31, 2008. ACEH requested one change in the proposed scope of work, namely that the groundwater monitoring wells proposed to be sampled for dissolved metals be sampled during the second quarterly sampling event instead of the first.

# 2.5 Investigation Objectives

The primary investigation objectives were as follows:

- Install and develop three new groundwater monitoring wells.
- Initiate a quarterly groundwater monitoring and reporting program.

These objectives were met by completing the scope of work described in the Work Plan and approved by ACEH. Results of the investigation and first quarterly groundwater monitoring event are presented and discussed in this report.

# 3.0 METHODOLOGY

# 3.1 Groundwater Monitoring Well Installation

## 3.1.1 Pre-Field Activities

#### Permitting

LFR applied for and received the appropriate drilling and well installation permit from Zone 7; a copy of the approved permit is included in Appendix A.

## 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 the 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.

## Health and Safety Plan

An existing site-specific Health and Safety Plan (HSP) previously prepared by LFR for subsurface investigations at this Site was updated as necessary 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 attended on-site health and safety training conducted by a Hanson representative.

## 3.1.2 Drilling and Groundwater Monitoring Well Installation

Three new groundwater monitoring wells were installed at the Site to increase the existing groundwater monitoring network. The locations of new wells MW-8 through MW-10 are shown on Figure 3.

As was requested by ACEH in its March 31, 2008 letter, well MW-8 is located approximately at the northern end of the former truck scale to evaluate groundwater quality immediately downgradient from the former hot mix asphalt plant; well MW-9 is located approximately northwest of former soil boring B26 to confirm that the TPH as

diesel (TPHd), TPH as motor oil (TPHmo), and 2-methylnaphtalene detected in soil samples collected from approximately 28 and 32 feet bgs from the B26 location have not affected groundwater; and well MW-10 is located approximately northwest of former soil boring B22 to evaluate the detection of elevated TPHd concentrations reported for the grab groundwater samples collected from the B22 location. Wells MW-8 through MW-10 were installed with well screen completed to sample first encountered groundwater, as described in this section. A summary of well completion details is presented in Table 1.

## Drilling and Lithologic Logging

LFR subcontracted Precision Sampling and Testing, Inc. ("Precision"), of Stockton, California, a state-certified drilling subcontractor, to conduct the drilling and well installation work using 8-inch-diameter hollow-stem auger (HSA) drilling technology. Drilling and well installation activities were completed during June 9 through 11, 2008.

During drilling, continuous soil cores were collected for lithologic evaluation and field screening. Field boring logs were prepared by an LFR field geologist and contain lithologic soil descriptions based on the Unified Soil Classification System (American Society for Testing and Materials D2488-00), and general observations such as indications of contamination and depth to first encountered groundwater. 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 coarse-grained sediments (sands and gravels) with intervals of relatively finer-grained sediments (silts and clays). In the soil boring for well MW-8, a concrete slab or similar was encountered between approximately 26 and 27 feet bgs. Soil cores were screened for the possible presence of petroleum hydrocarbons, using visible or olfactory indications and/or using a portable photoionization detector (PID). The only instance of the presence of petroleum hydrocarbon material was identified in the soil boring for well MW-9. Visual indication of thick black asphalt material was observed along with elevated PID readings in the interval from approximately 27 to 32 feet bgs. This interval is consistent with the soil contamination encountered and described during previous subsurface investigations conducted at this depth in the northern portion of the Site.

First groundwater was encountered in sediment approximately between 34 and 43 feet bgs in the three soil borings, although groundwater in the boreholes stabilized approximately between 41.5 to 50.5 feet bgs.

Due to field conditions, two soil borings were advanced in the MW-10 location prior to installing well MW-10. Soil boring MW-10A was advanced to a total depth of approximately 75 feet bgs, but insufficient groundwater was encountered in the soil boring and, therefore, a well was not installed in this soil boring. During drilling of soil boring MW-10A, relatively saturated soils consisting predominantly of poorly graded sand and sand with clay were observed between approximately 45 to 51.5 feet bgs.

Based on observations made during drilling of the soil boring for well MW-9 and based on the depth to water measured in well MW-9 the day after that well was installed, soil boring MW-10A was advanced further to encounter a more significant interval of coarse-grained sediments and groundwater. However, as soil boring MW-10A was advanced further, soils encountered from approximately 51.5 feet bgs to the total depth of the soil boring consisted predominantly of lean clay, and groundwater did not enter the soil boring during drilling. Drilling was halted at the total depth of approximately 75 feet bgs, and the soil boring was abandoned by grouting the borehole from the bottom to ground surface with a cement-bentonite grout. A new soil boring (for well MW-10) was advanced approximately 20 feet southeast of former boring MW-10A. The wet, coarse-grained interval encountered in boring MW-10A between approximately 45 to 51.5 feet bgs also was encountered in the boring for well MW-10 between approximately 45 and 53.5 feet bgs. Lean clay was encountered from approximately 53.5 feet bgs to the total depth of the soil boring (approximately 55 feet bgs). Based on field observations during drilling, well MW-10 was installed in this location.

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. Waste soil generated during drilling was placed either on plastic tarps or directly on the ground surface near each temporary soil boring for disposal during future land development activities. Wastewater generated during the field activities was placed in properly labeled sealed drums temporarily stored at the Site pending future disposal.

## Depth-Discrete Soil Sampling

In accordance with the Work Plan, LFR retained depth-discrete soil samples for chemical analysis from intervals where field screening and field observations indicated the possible presence of petroleum hydrocarbons in the soil. Based on observations made during the drilling of the soil borings, depth-discrete soil samples were collected from approximately 27.5 and 33.5 feet bgs in the soil boring for well MW-9 and were submitted for chemical analyses. The soil sample collected from approximately 27.5 feet bgs was collected from within the poorly graded gravel with sand interval where black petroleum hydrocarbon material was observed in the soil (approximately between 27 and 32 feet bgs) and elevated PID readings were recorded. The soil sample collected from approximately 33.5 feet bgs was collected from the top of a lean clay interval encountered immediately beneath the black petroleum product observed. The black petroleum hydrocarbon material observed between approximately 27 and 32 feet bgs is part of the affected soil interval encountered during previous subsurface investigations at similar depths and referred to as the "deep soil contamination." Analytical results of samples collected from this material have indicated that the material contains elevated concentrations of heavy petroleum hydrocarbons similar to asphalt material (analytical results have reported elevated concentrations within the diesel- and motor oil-range of hydrocarbons, and, according to forensics analyses, samples from this material contain even heavier hydrocarbons). Based on field observations of the deep soil contamination, and analytical results for samples collected from within and immediately beneath the

deep soil contamination, this material is relatively immobile, does not readily leach from soil, and does not appear to have significantly affected groundwater.

The two depth-discrete soil samples collected during the June 2008 well installation activities were transferred from the core barrel to clean sample containers, which were sealed, properly labeled, and stored in an ice-chilled cooler for transport to the analytical laboratory under chain-of-custody protocol. The depth-discrete soil samples were analyzed for the following parameters:

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

## Groundwater Monitoring Well Installation

Wells MW-8 through MW-10 were installed by Precision after target depths were reached and first groundwater was encountered, as described above (Figure 3).

Each monitoring well was constructed using 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) well casing and machine-slotted Schedule 40 PVC well screens with a 0.020-inch slot size. Well screen filter packs consisting of #3 graded clean silica sand 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 4-foot-thick bentonite seal between the filter pack and the cement grout that was used to fill the remaining annular space to near ground surface. Note that, prior to installing wells MW-8 through MW-10, one or more feet of coated bentonite pellets also were added to the bottom of soil borings approximately adjacent to fine-grained sediment (clay), as necessary, to bring the bottom of the soil borings up so that screen intervals were installed adjacent to relatively coarse-grained saturated sediment.

Each monitoring well was equipped with a well cap, and the surface completions consisted 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-8

Well MW-8, located approximately north-northwest of the northern end of the former truck scale structure (Figure 3), was installed on June 9, 2008, to a total depth of approximately 61 feet bgs with a 10-foot-long well screen (Table 2). During drilling, groundwater was first encountered in sediments at approximately 43 feet bgs, in a gravel and sand interval. The soil boring was advanced to a total depth of approximately 65 feet bgs, and water stabilized in the borehole at a depth of approximately 50.5 feet bgs. A clay interval was encountered from approximately 60 to 65 feet bgs. Because of the clay interval encountered, bentonite pellets were placed in the bottom approximately 4 feet of the borehole before the well casing and filter sand were installed.

Well MW-8 was constructed through the HSA with a well screen extending from approximately 51 to 61 feet bgs, adjacent to wet sand, and sand and gravel, intervals. The day after the well installation was completed and prior to well development, the depth to groundwater was measured to be approximately 52.8 feet below top of casing (TOC), and the total depth of the well was measured to be approximately 61.6 feet TOC.

## Well MW-9

Well MW-9, located approximately northwest of former soil boring B26 (Figure 3), was installed on June 10, 2008 to a total depth of approximately 52 feet bgs with a 10-foot-long well screen (Table 2). During drilling, groundwater was first encountered at approximately 41.2 feet bgs in a clayey gravel with sand interval, just below an extensive lean clay interval (approximately 32 to 41 feet bgs). The soil boring was advanced to a total depth of approximately 60 feet bgs, and water in the borehole stabilized at approximately 41.5 feet bgs. Lean clay was encountered from approximately 53 feet bgs to the total depth of the boring; bentonite pellets were placed in the bottom approximately 7 feet of the borehole before the well casing and filter sand were installed.

Well MW-9 was constructed through the HSA with a well screen extending from approximately 42 to 52 feet bgs, adjacent to soil intervals described on the boring log as wet clayey gravel with sand, sand with clay and gravel, and sandy silt. The day after well MW-9 was installed and prior to well development, only 2.5 feet of standing water were measured in the well. On June 16, 2008, immediately prior to well development, the depth to groundwater was measured to be approximately 51.5 feet TOC and the total depth of the well was measured to be approximately 55 feet TOC, indicating approximately 3.5 feet of standing water in the well. As described in the following section, despite relatively little water present in the well, well development activities confirmed that well MW-9 recharged sufficiently for purging and sampling purposes.

#### Well MW-10

Well MW-10, located approximately adjacent to former soil boring B22 (Figure 3), was installed on June 11, 2008 to a total depth of approximately 54 feet bgs with a 10-foot-long well screen (Table ). During drilling, groundwater was first encountered at approximately 45 feet bgs in a sand interval, just below an extensive lean clay interval (approximately 36 to 45 feet bgs). The soil boring was advanced to a total depth of approximately 55 feet bgs. Based on the soils encountered in boring MW-10A advanced initially for well MW-10, as described above, the targeted coarse-grained saturated interval was encountered between approximately 45 and 53.5 feet bgs. Lean clay was encountered from approximately 53.5 feet bgs to the total depth of the boring; bentonite pellets were placed in the bottom approximately 1 foot of the borehole prior to installation of the well casing and filter sand.

Well MW-10 was constructed through the HSA with a well screen extending from approximately 44 to 54 feet bgs, adjacent to soil intervals described on the boring log as a wet, poorly graded sand. On June 16, 2008, immediately prior to well development, the depth to groundwater was measured to be approximately 51.3 feet TOC and the total depth of the well was measured to be approximately 57.1 feet TOC, indicating approximately 6 feet of standing water in the well.

## 3.1.3 Well Development

The three new groundwater monitoring wells were developed on June 13, 2008, at least five days after installation. LFR subcontracted Precision (who in turn subcontracted Del-Tech Geotechnical Support Services) to conduct the well development under the direction of an LFR field geologist. The well development included a combination of bailing using a stainless steel bailer, surging (using a Waterra pump and surge block), and pumping (using a Waterra pump) to remove fine-grained sediment from the wells and improve their hydraulic efficiency.

Depth to water and total well depths were measured before and after well development, and general water-quality parameters were monitored during well development. Wells MW-8 through MW-10 were considered sufficiently developed after general waterquality parameters stabilized and at least 10 casing volumes of water were removed from each well. During well development, approximately 30 gallons of water (20 casing volumes) were removed from well MW-8; approximately 12 gallons of water (15 casing volumes) were removed from well MW-9; and approximately 25 gallons of water (25 casing volumes) were removed from well MW-9; and approximately 25 gallons of water (25 casing volumes) were removed from well MW-10. General water-quality parameters equilibrated rapidly; however, turbidity remained high (greater than 1,000 nephelometric turbidity units [NTU]) in each of the wells. Pumping rates of approximately 0.2 gallon per minute (gpm) for well MW-9 and 0.5 gpm for wells MW-8 and MW-10 were sustained with minimal drawdown throughout well development. All downhole equipment was properly steam-cleaned between wells. Wastewater and purge water were contained in labeled 55-gallon steel drums or 60-gallon plastic drums temporarily stored on-site. Copies of well development field forms are included in Appendix C of this report.

#### 3.1.4 Well Location Survey

LFR subcontracted Kier & Wright Civil Engineers & Surveyors, Inc., a licensed land surveyor, to survey the locations and the TOC elevations of the three new groundwater monitoring wells. Well locations presented on Figures 3 through 6 are based on the land survey results.

# 3.2 Quarterly Groundwater Monitoring

The first of four planned quarterly groundwater monitoring events was completed on June 16, 2008. This monitoring event consisted of measuring depth to groundwater and of purging and sampling groundwater monitoring wells MW-1 through MW-10. The methodology of the quarterly monitoring event is described in this section, and results are presented and discussed in Section 4.0.

## 3.2.1 Groundwater Elevation Monitoring

Depth-to-groundwater monitoring was conducted prior to purging and sampling, using a Solinst water level indicator and with respect to the TOC. Depth-to-groundwater measurements were recorded on a field sheet, a copy of which is included in Appendix C. Groundwater elevations were calculated by subtracting the depth-togroundwater measurement from the TOC elevation. Calculated groundwater elevations are presented in Table 2 and on Figure 6.

## 3.2.2 Groundwater Well Purging and Sampling

Wells MW-1 through MW-10 (except for well MW-4) were purged and sampled using single-use disposable bailers on June 16, 2008, approximately three days after well development was completed. Well MW-4 did not contain sufficient water for purging and sampling. Note that in the Work Plan it was proposed that a low-flow purging and sampling technique would be used during the quarterly groundwater monitoring events. However, to accelerate the purging and sampling event, as well as to provide additional, more vigorous purging of the wells to lower turbidity, purging and sampling during the current quarter were conducted using disposable bailers. This method also was used when wells MW-1 through MW-7 were first sampled in October 2007.

Depth to groundwater and general water-quality parameters were monitored during purging, and the parameters were recorded on field sheets, copies of which are included in Appendix C. The wells were considered sufficiently purged after at least three casing volumes were removed from each well and general water-quality

parameters stabilized. Groundwater samples were collected after purging was completed.

Groundwater samples were collected in clean, laboratory-provided sample containers, properly labeled, and stored in an ice-chilled cooler for transportation to the laboratory under chain-of-custody protocol. Because dedicated, single-use, disposable bailers were used, no equipment blank samples were collected. One field duplicate sample was collected from well MW-5. Although a trip blank sample was proposed to be collected, due to the field oversight, the trip blank sample was not submitted to the laboratory and therefore was not analyzed.

## 3.2.3 Quarterly Monitoring Laboratory Analyses

Groundwater samples were submitted to Curtis & Tompkins, Ltd., a Californiacertified analytical laboratory located in Berkeley, California. All samples were analyzed for the following parameters, and in accordance with the sample matrix presented in Table 1:

- TPHd and TPHmo by EPA Method 8015 (after undergoing silica gel cleanup)
- TPHg by EPA Method 8260
- BTEX by EPA Method 8260
- Fuel oxygenates by EPA Method 8260
- Lead scavengers by EPA Method 8260
- Semivolatile organic compounds by EPA Method 8270

Analytical results for the quarterly groundwater monitoring event are summarized in Table 4 based on laboratory-certified analytical reports included in Appendix D.

# 4.0 **RESULTS**

Results from the drilling and quarterly groundwater monitoring event conducted during June 2008 are discussed in this section. A summary of analytical results is presented in Tables 3 and 4. All TPHd, TPHmo, and TPHg analytical results for soil and grab groundwater samples collected to date at the Site are presented on Figure 4. Analytical results for groundwater samples collected during the current quarterly groundwater monitoring event are presented and summarized on Figure 5. Groundwater elevation data and interpreted groundwater equipotential contours are presented on Figure 6. Analytical results were compared to the November 2007 San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for 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 exceeded the ESLs are highlighted in the appropriate summary tables and figures.

# 4.1 Depth-Discrete Soil Samples

The two depth-discrete soil samples collected from soil boring MW-9 contained only TPHd, TPHmo, and, in the case of the 27.5-foot sample, also TPHg (Table 3) above laboratory reporting limits. BTEX compounds, fuel oxygenates, and lead scavengers were not present above laboratory reporting limits in either soil sample. Only the soil sample collected from within the deep soil contamination interval (the 27.5-foot sample) contained elevated TPH concentrations, and only the TPHd concentration exceeded the ESL. The soil sample collected from approximately 33.5 feet bgs contained only low concentrations of TPHd and TPHmo.

The analytical results of the depth-discrete soil samples confirmed the visual observations made during the field, namely that only the soil from within the interval visually observed to contain black petroleum hydrocarbon contained elevated TPH concentrations. The interval immediately beneath the deep soil contamination is relatively free of petroleum hydrocarbons. Based on the results of these samples and previous investigations, there appears to be no significant effect to local groundwater quality from the deep soil contamination.

# 4.2 Groundwater Elevations

Depth to groundwater was measured in the 10 groundwater monitoring wells on June 16, 2008. Depth to groundwater ranged from approximately 48 to 58 feet bgs in six of the seven wells, and was approximately 70 feet bgs in well MW-5. The groundwater elevation in each well was calculated using the surveyed TOC elevation; results are summarized in Table 2. Groundwater elevation data and contours are presented on Figure 6. The groundwater elevation in well MW-5 was not used in the contouring because the elevation is anomalously low compared to elevations in the other nine wells. Based on field observations of first encountered groundwater in this location, well MW-5 likely is monitoring somewhat deeper groundwater than the other wells installed at the Site.

The groundwater elevation contours indicate that the groundwater flow direction beneath the Site was approximately to the west and northwest on July 16, 2008, with a horizontal groundwater gradient of approximately 0.015 to 0.025 foot per foot. These results are similar to results from groundwater monitoring conducted on October 22, 2007, after wells MW-1 through MW-7 were installed.

# 4.2 Groundwater Analytical Results

Analytical results from the June 16, 2008 quarterly groundwater sampling event are presented in Table 4 and on Figure 5. Table 5 presents all historical analytical data for the samples collected from the groundwater monitoring wells at the Site.

Groundwater samples were collected for laboratory analyses from nine of the ten groundwater monitoring wells during the current quarter. A sample could not be collected from well MW-4 due to insufficient water in the well. Analytical results indicate that none of the compounds analyzed for in the groundwater monitoring wells were detected above laboratory reporting limits (Table 4). These data are generally consistent with analytical results from groundwater samples collected from wells MW-1 through MW-7 on October 22, 2007. In the October 2007 groundwater samples, only low concentrations of toluene (estimated to be present at concentrations below the laboratory reporting limits) were reported for samples collected from wells MW-3 and MW-5 (Table 5). Toluene was not detected in any groundwater samples collected on June 16, 2008.

The analytical results from this quarterly groundwater monitoring event confirm that groundwater beneath the Site has not been affected by the TPH or TPH-related compounds detected in limited areas in soil. The next groundwater monitoring event will take place during third quarter 2008 (July through September 2008).

# 5.0 CONCLUSIONS AND RECOMMENDATIONS

Three new groundwater monitoring wells (wells MW-8 through MW-10) were successfully installed during June 9 through 11, 2008 to increase the groundwater monitoring network at the Site. During drilling, evidence of the presence of petroleum hydrocarbons in soil was identified in the soil boring for well MW-9 approximately between 27 and 32 feet bgs. This interval is consistent with the deep soil contamination previously encountered in temporary soil borings advanced in the northern portion of the Site. Two depth-discrete soil samples were collected for laboratory analyses from the boring for well MW-9, from approximately 27.5 and 33.5 feet bgs. The soil sample collected from approximately 27.5 feet bgs contained elevated concentrations of TPHd and TPHmo; the TPHd concentration exceeded the ESL. The soil sample collected from approximately 33.5 feet bgs did not contain significant concentrations of TPH. These results are consistent with results from previous subsurface investigations and confirm that the deep soil contamination is vertically limited to a few feet in thickness, consists of heavy petroleum hydrocarbon material such as asphalt material, and appears to be relatively immobile.

After well installation was completed, the three new wells were appropriately developed and surveyed. At least 15 casing volumes of water were removed from each well during well development and general water-quality parameters stabilized; however, turbidity remained high.

The first quarterly groundwater monitoring event was conducted on July 16, 2008. A round of depth-to-groundwater measurements was completed prior to sampling and groundwater elevations were calculated. Equipotential contours drawn based on groundwater elevations indicate that the local groundwater flow direction is approximately to the west and northwest, with a horizontal groundwater gradient of approximately 0.015 to 0.025 foot per foot. The groundwater elevation from well MW-5 was not used in the contouring because it is significantly lower than all other wells at the Site, likely because it is monitoring somewhat deeper groundwater. The results from the June 16, 2008 groundwater elevation monitoring event are consistent with groundwater monitoring data from wells MW-1 through MW-7 previously monitored on October 22, 2007.

Groundwater samples were collected from all groundwater monitoring wells, except for well MW-4. A sample could not be collected from well MW-4 due to an insufficient amount of groundwater present in this well. Analytical results show that none of the compounds analyzed for were detected above laboratory reporting limits in any of the wells sampled during the current quarter. These results are consistent with results from wells MW-1 through MW-7 previously sampled on October 22, 2007. The results of the current groundwater monitoring event confirm that groundwater beneath the Site has not been affected by the TPH or TPH-related compounds detected in limited areas in soil.

As described in the Work Plan and as approved by ACEH, LFR will conduct the next groundwater monitoring event during the period of July 1 through September 30, 2008. All groundwater samples collected will be analyzed for the same parameters analyzed for during the current quarter. In addition, during the next quarterly groundwater monitoring event, samples collected from wells MW-3, MW-8, and MW-9 will be analyzed for dissolved metals concentrations in accordance with the sample matrix presented in Table 1. The next groundwater monitoring report will be submitted to ACEH by November 7, 2008 (40 days after the end of third quarter 2008).

# 6.0 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 percent confidence in environmental investigation conclusions cannot reasonably be achieved.

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

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W/all	Data	Annevimate	Sereen Interval	трца /	TDLLa	DTEV	Euol	Load	SVOC.	Discolved
ID	Installed	top	bottom	TPHmo	IFIIg	DIEA	Ox	Scav	svocs	Metals
		(feet bgs)	(feet bgs)	8015	8260	8260	8260	8260	8270	6010B
Groundwater Monito	oring Wells									
MW-1	10/3/2007	45	60	х	х	х	х	Х	Х	-
MW-2	10/2/2007	45	60	Х	х	Х	Х	х	х	-
MW-3	10/4/2007	45	60	х	х	х	х	Х	х	once <sup>1</sup>
MW-4	10/5/2007	43	48	х	х	х	х	Х	Х	-
MW-5	10/9/2007	69	74	Х	х	х	х	х	Х	-
MW-6	10/10/2007	45	55	Х	х	Х	Х	Х	х	-
MW-7	10/1/2007	50	65	Х	Х	Х	Х	Х	х	-
MW-8	6/9/2008	51	61	х	х	х	х	Х	х	once <sup>1</sup>
MW-9	6/10/2008	42	52	х	х	х	х	х	х	once <sup>1</sup>
<b>MW-10</b>	6/11/2008	44	54	Х	х	х	х	х	х	-
Quality Assurance a	nd Quality Cont	rol Samples <sup>2</sup>								
Field Blank	na	na	na	х	х	х	х	Х	Х	-
Trip Blank	na	na	na	-	Х	Х	Х	Х	-	-

#### Table 1 Quarterly Groundwater Monitoring Sample Matrix Former Hot Mix Asphalt Plant Area Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

#### Notes:

feet bgs = feet below ground surface

"x" = to be analyzed quarterly for four consecutive quarters

"-" = not analyzed

na = not applicable

<sup>1</sup> Samples for dissolved metals will be collected only once, during the second quarterly groundwater monitoring event.

<sup>2</sup> One field blank (FB) sample will be collected during each quarterly monitoring event, and one trip blank (TB) sample will be collected for every cooler of samples transported to the laboratory during every quarterly monitoring event.

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

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

TPHg = total petroleum hydrocarbons as gasoline by EPA Method 8260

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

Fuel Ox = fuel oxygenates by EPA Method 8260

Lead Scav = lead scavengers by EPA Method 8260

SVOCs = semivolatile organic compounds by EPA Method 8270

Dissolved Metals = CAM 17 list of dissolved metals (laboratory filtered samples) by EPA Method 6010B

Table 2
Groundwater Monitoring Well Construction Details
Former Hot Mix Asphalt Plant Area
Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Installation Date	Boring Hole Diameter (inches)	Casing Diameter (inches)	Approximate Total Well Depth (feet bgs)	Approximate Screened Interval (feet bgs)	Top of Casing Elevation <sup>1</sup> (feet msl)	Depth to Groundwater Measured on 6/16/08 (feet TOC)	Groundwater Elevation Measured on 6/16/08 (feet msl)
MW-1	10/3/07	8.0	2.0	60	45 - 60	374.67	57.35	317.32
MW-2	10/2/07	8.0	2.0	60	45 - 60	376.33	55.39	320.94
MW-3	10/4/07	8.0	2.0	60	45 - 60	374.95	54.53	320.42
MW-4	10/5/07	8.0	2.0	48	43 - 48	372.94	48.77	324.17
MW-5	10/9/07	8.0	2.0	74	69 - 74	374.35	70.16	304.19
MW-6	10/10/07	8.0	2.0	55	45 - 55	375.03	49.34	325.69
MW-7	10/1/07	8.0	2.0	65	50 - 65	377.68	57.21	320.47
MW-8	6/9/08	8.0	2.0	61	51 - 61	378.60	55.73	322.87
MW-9	6/10/08	8.0	2.0	52	42 - 52	375.75	51.48	324.27
<b>MW-10</b>	6/11/08	8.0	2.0	54	44 - 54	375.62	51.38	324.24

#### 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

<sup>1</sup> Top of casing elevation and land survey conducted by Kier & Wright Civil Engineers & Surveyors, Inc.

Table 3

#### Petroleum Hydrocarbons and Associated Compounds Detected in Soil Samples Collected During Drilling in June 2008

Former Hot Mix Asphalt Plant Area

#### Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

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

Sample Sample ID Date Sample Interval Matrix					Total Petroleum Hydrocarbons				BTEX compounds					Fuel Oxygenates					Lead Scavengers	
Location		Sampled	top (feet bgs)	bottom (feet bgs)	I	TPHd (mg/kg)	TPHmo (mg/kg)	TPHg (mg/kg)	B (ug/kg)	T (ug/kg)	E (ug/kg)	m,p-X (ug/kg)	o-X (ug/kg)	MTBE (ug/kg)	TAME (ug/kg)	DIPE (ug/kg)	ETBE (ug/kg)	TBA (ug/kg)	EDB (ug/kg)	EDC (ug/kg)
Depth-Discrete Soil Samples from Soil Borings																				
	MW-9-27.5	6/10/2008	27	27.5	soil	6,600 Y	4,700	28 Y	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 25	< 1.3	< 1.3
	MW-9-33.5	6/10/2008	33	33.5	soil	67 Y	69	< 0.98	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.0048	< 0.097	< 0.0048	< 0.0048
ESLs				d	eep soils	83	5,000	83	44	2,900	3,300	2,300	2,300	23	-	-	-	-	0.33	4.5

B = benzene

T = toluene

E = ethylbenzene

o-X = o-xylenes

m,p-X = m,p-xylenes

Notes:

feet bgs = feet below ground surface

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

TPHg = total petroleum hydrocarbons as gasoline

BTEX = benzene, toluene, ethylbenzene, and total xylenes

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

**6,600 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

ESLs = Environmental Screening Levels by San Francisco Bay Regional Water Quality Control Board, November 2007, for Deep Soils beneath

Industrial/Commercial Land Use Areas where Groundwater is a Current or Potential Source of Drinking Water.

MTBE = methyl tertiary-butyl ether TAME = tert-amyl methyl ether (methyl tert-amyl ether) DIPE = diisopropyl ether (isopropyl ether) ETBE = ethyl tert-butyl ether TBA = tert-butyl alcohol EDB = 1,2-dibromoethane (ethylene dibromide) EDC = 1,2-dichloroethane

#### Table 4 Groundwater Monitoring Wells Analytical Results for Second Quarter 2008 Former Hot Mix Asphalt Plant Area Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

#### (Concentrations reported in micrograms per liter [ug/l])

Sample ID	Date	Approximate	Matrix	Total Petr	oleum Hydı	rocarbons		BTEX	compo	ounds			Fuel	Oxyger	nates		Lead Sca	avengers	SVOCs
	Sampled	Screen Interval (feet bgs)		TPHd (ug/l)	TPHmo (ug/l)	TPHg (ug/l)	B (ug/l)	T (ug/l)	E (ug/l)	m,p-X (ug/l)	o-X (ug/l)	MTBE (ug/l)	TAME (ug/l)	DIPE (ug/l)	ETBE (ug/l)	TBA (ug/l)	EDB (ug/l)	EDC (ug/l)	(various) (ug/l)
Groundwater	• Monitoring	Wells																	
MW-1	6/16/2008	45 - 60	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-2	6/16/2008	45 - 60	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-3	6/16/2008	45 - 60	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-4 <sup>1</sup>	6/16/2008	43 - 48	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	6/16/2008	69 - 74	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-5 (Dup)	6/16/2008	69 - 74	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-6	6/16/2008	45 - 55	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-7	6/16/2008	50 - 65	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-8	6/16/2008	51 - 61	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
MW-9	6/16/2008	42 - 52	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
<b>MW-10</b>	6/16/2008	44 - 54	water	< 50	< 300	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 10	< 0.5	< 0.5	ND
Trip Blank <sup>2</sup>	6/16/2008	na	water	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		ESL gro	oundwater	100	100	100	1	40	30	20	20	5	-	-	-	-	0.05	0.5	(various)

B = benzene

T = toluene

E = ethylbenzene

o-X = o-xylenes

m,p-X = m,p-xylenes

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

TPHg = total petroleum hydrocarbons as gasoline

BTEX = benzene, toluene, ethylbenzene, and total xylenes

SVOCs = semivolatile organic compounds

(Dup) = a duplicate sample collected immediately after primary sample was collected

"-" = sample not analyzed or no ESL exists

" < " = not detected above the laboratory report given

<sup>1</sup> No groundwater sample could be collected from well MW-4 because insufficient water was present in the well at the time of sampling.

<sup>2</sup> Due to a field oversight, the trip blank sample collected during this sampling event was not submitted to the laboratory for analysis.

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

- MTBE = methyl tertiary-butyl ether
- TAME = tert-amyl methyl ether (methyl tert-amyl ether)
- DIPE = diisopropyl ether (isopropyl ether)
- ETBE = ethyl tert-butyl ether
- TBA = tert-butyl alcohol
- EDB = 1,2-dibromoethane (ethylene dibromide)
- EDC = 1,2-dichloroethane

#### Table 5 Historical Data from Groundwater Monitoring Wells Former Hot Mix Asphalt Plant Area Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Approximate Screened Interval	Top of Casing Elevation	Date	Depth to Groundwater Measured on 6/16/08	Groundwater Elevation Measured on 6/16/08	трца	TDUmo	TDUa	PTEV	Fuel Ox	Load Scav	SVOC
	(feet bgs)	(feet msl)		(feet TOC)	(feet msl)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)
MW-1	45 - 60	374.67	10/22/07 6/16/08	57.22 57.35	317.45 317.32	< 50 < 50	< 300 < 300	< 50 < 50	ND ND	ND ND	ND ND	- ND
MW-2	45 - 60	376.33	10/22/07 6/16/08	55.24 55.39	321.09 320.94	< 50 < 50	< 300 < 300	< 50 < 50	ND ND	ND ND	ND ND	- ND
MW-3	45 - 60	374.95	10/22/07 6/16/08	54.32 54.53	320.63 320.42	<50/<50 < 50	<300/<300 < 300	<50/<50 < 50	0.3J / 0.3J <sup>1</sup> ND	ND/ND ND	ND/ND ND	- ND
MW-4	43 - 48	372.94	10/22/07 6/16/08	47.37 48.77	325.57 324.17	-	-	-	-	-	-	- -
MW-5	69 - 74	374.35	10/22/07 6/16/08	68.40 70.16	305.95 304.19	< 50 < 50/< 50	< 300 <300/<300	< 50 <50/<50	0.4J <sup>2</sup> ND	ND ND	ND ND	- ND
MW-6	45 - 55	375.03	10/22/07 6/16/08	49.19 49.34	325.84 325.69	< 50 < 50	< 300 < 300	< 50 < 50	ND ND	ND ND	ND ND	- ND
MW-7	50 - 65	377.68	10/22/07 6/16/08	57.04 57.21	320.64 320.47	< 50 < 50	< 300 < 300	< 50 < 50	ND ND	ND ND	ND ND	- ND
MW-8	51 - 61	378.60	6/16/08	55.73	322.87	< 50	< 300	< 50	ND	ND	ND	ND
MW-9	42 - 52	375.75	6/16/08	51.48	324.27	< 50	< 300	< 50	ND	ND	ND	ND
MW-10	44 - 54	375.62	6/16/08	51.38	324.24	< 50	< 300	< 50	ND	ND	ND	ND
					ESL groundwater	100	100	100	various	various	various	various

#### Table 5 Historical Data from Groundwater Monitoring Wells Former Hot Mix Asphalt Plant Area Hanson Radum Facility, 3000 Busch Road, Pleasanton, California

Monitoring Well ID	Approximate Screened Interval	Top of Casing Elevation	Date	Depth to Groundwater Measured on 6/16/08	Groundwater Elevation Measured on 6/16/08	TPHd	TPHmo	TPHg	BTEX	Fuel Ox	Lead Scav	SVOCs
	(feet bgs)	(feet msl)		(feet TOC)	(feet msl)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)	(ug/l)

Notes:

ID = identification; monitoring well identification number

ug/l = micrograms per liter

ND = not detected; no compounds were detected above their respective laboratory reporting limits

feet bgs = feet below ground surface

feet msl = feet relative to mean sea level

feet TOC = feet below top of casing

TPHd = total petroleum hydrocarbons as diesel

TPHmo = total petroleum hydrocarbons as motor oil

TPHg = total petroleum hydrocarbons as gasoline

BTEX = benzene, toluene, ethylbenzene, and total xylenes

Fuel Ox = fuel oxygenates

Lead scav = lead scavengers

SVOCs = semivolatile organic compounds

J = reported concentration is estimated below the laboratory reporting limit

"-" = sample not analyzed or no ESL exists

" < " = not detected above the laboratory report given

<sup>1</sup> Toluene was detected at a low concentration of 0.3 ug/l estimated below the laboratory reporting limit in both the primary and the duplicate samples collected from well MW-3 on 10/22/07.

<sup>2</sup> Toluene was detected at a low concentration of 0.4 ug/l estimated below the laboratory reporting limit in the sample collected from well MW-4 on 10/22/07.

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.



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

Figure 2


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#### EXPLANATION:

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Groundwater Monitoring Well Location

- Temporary Soil Boring Location (LFR)
- Temporary Soil Boring Location (ENV or B&C)
- Temporary Soil Boring and Grab Groundwater Sample Location (LFR)
- Temporary Soil Boring and Grab Groundwater Sample Location (ENV or B&C)
  - Test Pit Soil Sample Location (ENV)
- Shallow Near Surface Grab Soil Sample Location (ENV or B&C)
- Hanson Property Boundary

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Area of Concern #1 Site Plan and Sample Location Map

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





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PHd	Total Petroleum Hydrocarbons as diesel
PHmo	Total Petroleum Hydrocarbons as motor oil
TPHg	Total Petroleum Hydrocarbons as gasoline
Dxy&Pb	Fuel Oxygenates and Lead Scavengers
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
<b>WOCs</b>	Semivolatile Organic Compounds



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#### EXPLANATION:

Groundwater Monitoring Well Location

Temporary Soil Boring Location (LFR)

✤ Temporary Soil Boring Location (ENV or B&C)

Temporary Soil Boring and Grab Groundwater Sample Location (LFR)

Temporary Soil Boring and Grab Groundwater Sample Location (ENV or B&C)

Test Pit Soil Sample Location (ENV)

Shallow Near Surface Grab Soil Sample Location (ENV or B&C)

MW-4 324.17 Location ID

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Groundwater Elevation in Feet Above Mean Sea Level (feet msl)

Not Used in Contouring

Groundwater Elevation Contour (feet msl) (dashed where inferred)

Hanson Property Boundary

Area of Concern #1 Groundwater Elevations and Equipotential Contours, June 16, 2008

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



Figure 6

100 FEET

### APPENDIX A

Soil Boring Permit

100 NORTH CANYONS PARKWAY, LIVERMORE,	, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9308 E-MAIL <u>whong@zone7water.com</u>
DRILLING PE	
FOR APPLICANT TO COMPLETE	FOR OFFICE USE
OCATION OF PROJECT FORMER HOT MIX ASPHALT PLANT, HANSON RIDUM - AREA OF CONCERN #1	PERMIT NUMBER <u>28074</u> WELL NUMBER <u>3S/1E-15F6 (MW-9), 15F7 (MW-10) &amp;</u> APN 946-1250-019-01 15M5 (MW-8)
Salifornia Coordinates Sourceft. Accuracy* •ft. SCNft. CCEft.	PERMIT CONDITIONS (Circled Permit Requirements Apply)
SLIENT Vame HANSON AGGIEGOTES Address 3000 BUSCH ROLD Phone(125)426-4170 City PGASANTON Zip 14566-0808 APPLICANT Vame LFR, ENC. Email Tarry LADY Ade OISPULT Fax(510)652-4906 Address 19 00 Powell St. 11 <sup>TH</sup> PL, Phone(510)596-9638	<ul> <li>GENERAL</li> <li>A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.</li> <li>Submit to Zone 7 within 60 days after completion of permitted work the original <u>Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller</u>.</li> <li>Permit is void if project not begun within 90 days of approval date.</li> </ul>
Sity     Evalue     Zip     9.24.68       CYPE OF PROJECT:     Nell Construction     Sectechnical Investigation       Nell Destruction     Contamination Investigation     Sectechnical Investigation       Nell Destruction     Contamination Investigation     Sectechnical Investigation       Sathodic Protection     Other     Sectechnical Investigation       PROPOSED WELL USE:     Other     Sectechnical Investigation       Domestic     Irrigation     Sectechnical Investigation       Nunicipal     Remediation     Sectechnical Investigation       Nunicipal     Groundwater Monitoring     Sectechnical Investigation       Dewatering     Other     Sectechnical Investigation	<ul> <li>B. WATER SUPPLY WELLS</li> <li>1. Minimum surface seal diameter is four inches greater than the well casing diameter.</li> <li>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.</li> <li>3. Grout placed by tremie.</li> <li>4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.</li> <li>5. A sample port is required on the discharge pipe near the wellhead.</li> </ul>
DRILLING METHOD: Aud Rotary Air Rotary Hollow Stem Auger X Sable Tool Direct Rush Other DRILLING COMPANY Precision Sampling, The DRILLER'S LICENSE NO. 636387	<ul> <li>GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS</li> <li>Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.</li> <li>Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.</li> <li>Grout placed by tremie.</li> </ul>
VELL SPECIFICATIONS: Drill Hole Diameter in. Maximum Cesing Diameter in. Depth ft. Surface Seal Depth ft. Number	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.
IOIL BORINGS: Number of Borings Maximum Hole Diameter in. Depth ft.	E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
STIMATED STARTING DATE6-40-08	F. WELL DESTRUCTION. See attached.
hereby agree to comply with all requirements of this permit and Alameda Sounty Ordinance No. 73-68.	G.) SPECIAL CONDITIONS Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.
PPLICANT'S Jan Jungall Date 5-15-08	Approved Wyman Hong Date 6/3/08

APPENDIX B

Soil Boring Logs and Well Completion Details

PROJ	ECT NAME H	lanso ggrega	n Radı ates W	um, A /est R	OC #1 egion					V	VELI	_ N	UMBER M PAGE 1	<b>W-8</b> OF 3
PROJ		asanto	n, CA	DRILLING CONT	RACTO	R Pre	cision Sa	amplin	g, Inc.					
PROJ		7-07				DRILLING METH	OD Hol	low St	em Auge	er				
LOCA	TION Forme	r Hot I	Mix As	phalt	Plant A	Area (A	AOC #1)	STAMP (IF APPL		E) AND	)/OR NC	TES		
OVA		Mini F	RAE 20	000										
GROU	JND ELEVATI	<b>ON</b> _3	75.68	ft-msl		HOLI	E DIAMETER 8 inches							
TOP	OF CASING E	LEVA	TION	378.6	0 ft-ms	HOLI	E DEPTH_65.0 ft							
⊥		TERE		TER 4	13.0 ft									
I s⊤		TER	50.5 f	t										
LOGO	GED BY L. La	- puyad	le & R.	Moni	z <b>D</b> A	<b>TE</b> 6	/9/08							
it)	Щ		s) s						ស្វ					et)
DEPTH (fee	SAMPLE TY NUMBER	SAMPLE	BLOW COUN (per 6 inche	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DE	SCRIPTION	ELEVATION (feet)	PID (ppm)		WELL		DEPTH (fee
		$\mathbb{N}$					SILTY SAND WITH GR grayish brown (2.5Y 4/2	AVEL (SM), dark 2), moist, 40% fine		0.0			Concrete	-
		$ \Delta $		SM			sand, 40% fines, 20% g	jravel.						_
				OW								11		_
						4.0			<u>    371</u> .7					
5							POORLY GRADED GR grayish brown (2.5Y 4/2	AVEL (GP), dark 2), moist, 90% fine					- 0" dia	5
		IN					gravel, 1/4 to 1/2" dia., subrounded (pea grave	subangular to I), 10% sand.		0.0		7	Borehole	
Ē					•			,						-
-					••••							11		-
-														-
10														10
		$\frac{1}{1}$					-as above, trace sand.		-	0.0		*/	<ul> <li>2" dia.</li> <li>SCH40 PVC</li> </ul>	10
F		IX											Blank Casing	-
-				GP								11		-
-														-
-					•									-
80/13										0.0		1	<ul> <li>Cement Grout</li> </ul>	15
										5.5				-
1 1														-
SEPT 2														-
LFR														-
20 20 20					·/ - '	1	(Continued N	ext Page)				_K_		20
Adv 2007 001-09567.	ROVED BY:						DATE:						10 L F	R

PROJECT NAME H CLIENT Hanson Ag	lansor ggrega	n Radu ates W	im, Ai est R	OC #1 egion			۷	VELL NUMBER MW-8 PAGE 2 OF 3
DEPTH (feet) SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	STATES CONTRACTOR STATES STATE	ELEVATIONS (feet)	PID (ppm)	WELL DIAGRAM
- 25 - 25 		10 25 43 25	GP GP SM CL SM		-as above. -as above, color change to light olive brown 26.0 (2.5Y 5/3), trace fines. At 26 to 27 feet, concrete slab. 27.0 29.0 SILTY SAND WITH GRAVEL (SM), olive brown (2.5Y 4/3), moist, 45% fines, 30% fine to coarse sand, 25% fine to coarse gravel 31.0 up to 2" dia. LEAN CLAY (CL), dark grayish brown (2.5Y 5/2), moist, hard consistency, low plasticity. 32.5 SILTY SAND WITH GRAVEL (SM), olive brown (2.5Y 4/3), moist, 45% fines, 30% fine to coarse sand, 25% fine to coarse gravel up to 2" dia. -as above, gravel up to 3" dia. 38.0 POORLY GRADED SAND WITH GRAVEL (SP), grayish brown (2.5Y 5/3), moist to wet, 55% fine to coarse gravel up to 2" dia., 5% fines.	<u>349.7</u> <u>348.7</u> <u>346.7</u> <u>344.7</u> <u>343.2</u> <u>333.2</u>	0.0 0.0 0.0 0.0 0.0 0.0	2" dia. Borehole 2" dia. SCH40 PVC Blank Casing 30 Cement Grout 40
    50		50-6" 31 22 50-4.5 50-4.5 36 20 22	GW SP- SM		<ul> <li>WELL GRADED GRAVEL WITH SAND (GW), grayish brown (2.5Y 5/3), wet, 50% subangular to subrounded fine to coarse gravel up to 2" dia., 45% fine to coarse sand, 5% fines. Depth to water in sediments at approximately 43 feet during drilling. -as above, moist.</li> <li>POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), olive brown (2.5Y 4/3), moist to wet, 65% angular to subangular fine to coarse gravel up to 2" dia., 25% fine</li> </ul>	327.7	0.0	45 Seal (coated bentonite pellets) 45 #5 #5 #5 #5 #5 #5 #5 #5 #5 #5 #5 #5 #5
				<u>ı.</u> ∙µırı	(Continued Next Page)			



PROJ	IECT NAME <u> </u> NT Hanson Ag	lanso	on Rad Jates V	um, A	OC #1 egion					V	VELL		<b>MW-9</b>
PROJ		ON_3	000 Bi	usch R	d, Ple	asanto	n, CA	DRILLING CON	TRACTO	R Pre	cision Sa	impling, Inc.	
PROJECT NUMBER 001-09567-07								DRILLING MET	HOD Hol	low St	em Auge	r	
LOCA	TION Former	r Hot	Mix As	phalt	Plant A	Area (A	AOC #1)	STAMP (IF APF	LICABLI	E) AND	D/OR NO	TES	
	EQUIPMENT	Mini	RAE 20	000									
GROL	JND ELEVATI	ON_3	373.56	ft-msl		HOLE	E DIAMETER 8 inches						
ТОР	OF CASING E			375.7	5 ft-ms	HOLE	E DEPTH 60.0 ft						
		TERE	ED WA	TER 4	1.2 ft								
<b>⊈</b> ѕт	ABILIZED WA	TER	41.5 f	t									
LOGO	GED BY L. La	puya	de & R	. Moni	z <b>d</b> a	<b>TE</b> 6/	/10/08						
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DES	CRIPTION	ELEVATIONS (feet)	PID (ppm)			DEPTH (feet)
							No recovery; assume fill.					Concrete	
- - - - - - - - - - - - - - - -				GP		5.0	POORLY GRADED GRA (GP), dark grayish brown 80% fine to coarse subar subrounded gravel up to to coarse sand, 5% fines. -as above.	VEL WITH SAND (2.5Y 4/2), dry, igular to 1.5" dia., 15% fine	<u>_368.6</u>	0.0		8" dia. Borehole 2" dia. SCH40 P\ Blank Casing	5 /C
-							-as above.			0.0		Grout	15
					-		(Continued Nex	(t Page)					20
APP	ROVED BY:						DATE:					۵L	FR



PROJECT NAME <u>Hanson Radur</u> CLIENT <u>Hanson Aggregates We</u>	n, AOC #1 est Region	WELL NUMBER MW-9 PAGE 3 OF 3
DEPTH (feet) SAMPLE TYPE NUMBER SAMPLE RECOVERY BLOW COUNTS (per 6 inches)	U.S.C.S. GRAPHIC LOG CLOG CECSIDION (feet) (feet)	(teet) (teet) (Leet) (Leet) (Leet)
	SP-SC 51.5 322 ML 52.8 4(4), moist, 70% low plasticity fines, 20% fine sand, 10% fine gravel (pea gravel), 320 LEAN CLAY (CL), light olive brown (2.5Y 5/6), moist. CL 60.0 313 Bottom of boring at approximately 60 feet bgs. Bottom of well MW-9 at approximately 52 feet bgs.	1          End Cap          8       0.0             0.0              0.0              0.0              0.0                                                                                       .
COMMENTS		
APPROVED BY:	DATE:	

PRO. CLIE	JECT NAME <u>H</u> NT Hanson Ag	<u>-lanso</u> ggreg	<u>n Radı</u> ates N	um, A /est R	OC #1 egion		BORING NUMBER N	<b>//W-</b> ' GE 1	<b>10A</b> OF 3
PRO		ON 3	000 Bi	usch F	Rd, Ple	asanton, CA	DRILLING CONTRACTOR Precision Sampling, Inc.		
PRO.	JECT NUMBEI	<b>R_</b> 001	-0956	7-07			DRILLING METHOD_Hollow Stem Auger		
LOC	ATION_Forme	r Hot I	Mix As	phalt	Plant A	Area (AOC #1)	STAMP (IF APPLICABLE) AND/OR NOTES		
OVA		Mini F	RAE 20	000					
GRO	UND ELEVATI		IM			HOLE DIAMETER 8 inches			
тор	OF CASING E	LEVA		NM		HOLE DEPTH 75.0 ft			
⊥ FI	RST ENCOUN	TERE	D WA	TER	34.5 ft				
l⊈ sı	TABILIZED WA		45.0 f	t					
LOG	GED BY Larry	<sup>,</sup> Lapu	yade		DA	TE <u>6/11/08</u>			
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	BLOW COUNTS (per 6 inches)	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	PID (ppm)	DEPTH (feet)
				GC		CLAYEY GRAVEL (GC up to 2" dia.	;), brown (10YR 5/3), dry, subangular to subrounded gravel	0.9	
- - - 10						9.0 POORLY GRADED GF		0.2	- - 10
- - - 15				GP		moist, 85% subangular sand.	to subrounded gravel up to 3/4" dia., 15% fine to coarse	1.1	
						No recovery, log from o	cuttings.	0.0	-
	MMENTS		1	I		1	(Continued Next Page)	1	20
APP	PROVED BY:					DATE:		LFI	R





PROJ CLIEI	JECT NAME_H NT_Hanson Ag	ansor Igrega	n Rad ates V	um, A0 Vest Ro	CC #1 egion				W	ELL	NUI	VBER MV PAGE 1	<b>/-10</b> OF 3
PROJ	JECT LOCATIO	<b>DN</b> _30	00 Bi	usch R	d, Plea	asanton, CA	DRILLING CON	TRACTO	R Pred	cision Sa	ampling	, Inc.	
PROJ		<u>001</u>	-0956	7-07			DRILLING MET	HOD Hol	low Ste	em Auge	er		
LOCA	TION Former	Hot N	/lix As	phalt I	Plant A	rea (AOC #1)	STAMP (IF APP	PLICABLE	E) AND	)/OR NC	TES		
ονΑ		Mini R	AE 20	000									
GRO	UND ELEVATIO	ON_37	73.18	ft-msl		HOLE DIAMETER 8 inches							
TOP	OF CASING EL	EVA		375.62	<u>2 ft-m</u> sl	HOLE DEPTH 55.0 ft bgs							
⊈ FIF		FERE	D WA	TER_3	4.5 ft b	ogs							
ST	ABILIZED WA	TER_	NM										
LOGO	GED BY Larry	Lapuy	/ade		DA	TE_6/11/08							-
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESC	RIPTION	ELEVATIONS (feet)	PID (ppm)			DIAGRAM	DEPTH (feet)
						Drill to approximately 40 feet see boring log for MW-10A fo ground surface to 40 feet bgs	bgs without coring; r lithology from					<ul> <li>Concrete</li> <li>8" dia. Borehole</li> <li>2" dia. SCH40 PVC Blank Casing</li> <li>Cement Grout</li> </ul>	
	MMENTS					(Continued Next	Page)					<b>D</b> LF	R

PROJ CLIEN	ECT NAME_H	ansor Igrega	n Rad ates V	um, A0 /est Ro	OC #1 egion			W	ELL NUMBER MW-10 PAGE 2 OF 3
DEPTH (feet)	SAMPLE TYPE NUMBER	SAMPLE RECOVERY	U.S.C.S.	GRAPHIC LOG	DEPTHS (feet)	LITHOLOGIC DESCRIPTION	ELEVATIONS (feet)	PID (ppm)	WELL DIAGRAM
- - - - - - - - - - - - - - - - - - -					Ţ	Drill to approximately 40 feet bgs without coring; see boring log for MW-10A for lithology from ground surface to 40 feet bgs. Depth to water in sediments at approximately 34.5 feet during drilling.			<ul> <li>2" dia. Borehole</li> <li>2" dia. SCH40 PVC Blank Casing</li> <li>30</li> <li>30</li></ul>
- - - 40 -					40.0	LEAN CLAY (CL), very dark gray (GLEY1 3/N), moist, low to medium plasticity.	333.2	0.0	Bentonite Seal (coated bentonite pellets)
45			CL		45.0	POORLY GRADED SAND (SP), olive brown (2.5Y	328.2	0.0	#3 Sand 45
			SP			4/4), wet, 90% fine to coarse sand, 10% fine to coarse subangular to subrounded gravel up to 2.5" dia., trace fines.		0.0	2" dia. SCH40 PVC Perforated Well Screen (0.020" slot)
<u> </u>	MENTS		<u> </u>	<u>lete i</u>	4	(Continued Next Page)			
	ROVED BY:					DATE:			🛛 LFR

PROJECT NAME <u>Hanson Radum</u> , CLIENT <u>Hanson Aggregates West</u>	AOC #1 Region	W	ELL NUMBER MW-10 PAGE 3 OF 3
DEPTH (feet) SAMPLE TYPE NUMBER SAMPLE RECOVERY U.S.C.S.	SHLdau Deal Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characteriz	(feet) PID (ppm)	(teet) WELL DIAGRAM
SP	POORLY GRADED SAND (SP), olive brown (2.5Y 4/4), wet, 90% fine to coarse sand, 10% fine to coarse subangular to subrounded gravel up to 2.5" dia., trace fines.	0.0 0.0 <u>9.7</u>	2" dia. SCH40 PVC - Perforated Well Screen - (0.020" slot)
CL	LEAN CLAY (CL), light olive brown (2.5Y 5/4), moist, firm to hard consistency, low to medium 55.0 plasticity. 3 Bottom of boring at approximately 55 feet bos	8.2	End Cap     Bentonite     Seal (coated
	Bottom of well MW-10 at approximately 54 feet bgs.		
APPROVED BY:	DATE:		

### APPENDIX C

Groundwater Monitoring Well Development and Sampling Field Sheets

ØLFR					/		FIELD	REPORT
Project No	001-	09567-04		Date	6/13/	08	P;	ageof
Project Name	Han	son Radun	<b>۱</b> ــــــــــــــــــــــــــــــــــــ	Day: 🛛 Si	un 🗆 Mon	ı □ Tues □	Weds D Thurs	s 🍂 Fri 🗖 Sa
Personnel Inspector	R	L Moniz		Weather/Sit	te Condition:	s <u>S</u> ur	my, 70.	-90°
Task No. and Descrip	tion	Well D	evelop m	ent 1	NW-8	1→10.		
WORK FORCE				ON SITE				
	E	SUPERVISORS/WORKER	IS FROM		) t		COMMENTS	
Del-lech			090	20 16	<u>,17</u>	Don 4	oht	
			 	·				
		·	·	·	<u> </u>		·	
ITEM		OWNER	FROM	USED	).		COMMENTS	
1 Ton Picka	P	Del-Tech	090	0 16	15			
ul traiber	• 			<u> </u>				
• •		·	· · ·			· · · · · · · · · · · · · · · · · · ·		·
TIME				ACTIVI	ITIES		· · · ·	
6910	Imw	-8						
	55.	60 DTW TO	36	AP	the Dere	topment =	55.59	DTW
<u> </u>	61	07 DT 195	C	(20	-1.55 G	sing Vols)	69.43	TD
Ralla	A (			1	NTI	- 55 9.		
0 190		ser prograg	~ 7 ga		piw:	- 55. [0		<u> </u>
1045	<u></u>	je / pump	· · · · · · · · · · · · · · · · · · ·				· .	
1120	Mono	d to Min	9	•				
1100	512	36 ATLY TOC	550	7-11 1	20		· · · · · · · · · · · · · · · · · · ·	
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1212	51.	Y8 alta be	alua					
	· ·		<u> </u>		· .		continue on re	verse as needeo
					11	Ι.Λ.		
				SIGNED	IN	> //hit	N	

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6/13/08 field Report Continued. 001-09567-04 Hanson Kadun

### MW-8

= Same development approach w/ hand balling / Surging a few well volumes followed by suging/pumping. - well took larger to stubalize.

- Mad to remind developer to lower pumping speed a couple times. \* Total water removed = 12 gallons (15 and volumes) - water remained murky w/ NTU = >1000, as ded MW-8. TMW-10

# - Same techniques as previous 2 wells. - Water remained murkey w/ NTU = >1000 \* Total water removed = 25 gal (25 casing Volumes)

2-14

001-09567-04 Hanson Radum

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6/13/08 Field Report Continued

314

Summar	y of Well	Result	-			
· ·	Initial DTW TOC	Post Devel DTW Poc	Initial TD TOC	Bost TD TOC	Toc A6S	Vol HzO
Mw-8	55.60	55.59	64-29	64.43	2.89	30 gal
MW- 9	51.36	51.35	55.07	55.08	2.35	(20 asmig vol) 12 gal (15 asme vol)
MW-10.	57,27	PEM 5134	PEM STST F708	57.02	250	25gal (25col 101)
	(Allin feet)	)	51.00		•	(~~ using vol)

714 6/13/08 Map of Druns on Site 001-09567 Hanson Radum NW-10 chain Link Fence N 1 6 ¥Ð B B B 0 Z Ø ((, ( \* = well (F) = Drum T3 [67] 1(E) 3 Ð © ¥ ⓓ from 6/13 porged (Poly) 1014) (22) /2 full the (23) N1 (24) full soll arthings 10/10/07 fill water Ø  $\mathbb{O}$ All Water (I) Ð 3 1/2 fill water Ø 11 u 1/4 Roll water Ð (Y) fit water 1/2 FM Water 1/2 Rill Water Ø Ø 1/2 fill worten fill Water 6/11 water vinsate (Stean Clean 1 \* 6/11 water vinsate '' (lb Rill water () © © 1 R 1١ 17 (1 11 fill Hel 6/9 steern clean unsate 4 99 10 "( (r (2020) Empty Polys

DEL-TECH			D	EL-TEC	CH GEO	TECHN	ICAL S		RT		
				LFR / HA	NSON AG	GREGATI	E WELLS				
4				MONITORI	NG WELL FIE		( LOG 2007		1		
V				N	IEW WELL DE		г				
				GROUT					TOTAL DEPTH	I - FEET.10TH	's
DATE	CASING	MONUMENT	D.T.W.	SEAL	RECHARGE	ODOR	SHEEN	SURGING	SURGING	TOTAL	WATERRA
6/13/2008	DIAMETER	TYPE	FT. / IN.	DROPPED	ļ	Ļ	ļ	BEFORE	AFTER	DIFF.	INSTALLED
LOCATION	-	DOOD			0000	MONT	NONE				
MW - 8	2"	POST	55.60	NO	GOOD	NONE	NONE	64.29	64.27	-0.02	NO
MW - 9	2"	POST	51.30	NO	GOOD	MUSTY	NONE	55.07	55.10	0.03	NO
MW - 10	2	POST	51.27	NO	GOOD	MUSIY	NONE	57.08	57.02	-0.06	NO
											-
											-
											<u> </u>
					<u> </u>				<u> </u>		
NOTES:	M THE NORTH SIDE /	AND TOP EDGE OF T	'HE WELL								
ASING. THE TOP OF CASING WITH A CONDITION IS APPROPRIATE.	NOTCH OR PERMEN	ANT MARKINGS, WH	ICH EVER ONE								



# DEL-TECH geotechnical support services

### MONITORING WELL FIELD LOG 2008

SAMPLE LOCATION / MW -       8       DATE:       6/13/2008         PROJECT NAME:       LFR / HANSON       ANALYSIS PERFORMED:       N/A         ADDRESS:       EL CHARRO ROAD       SAMPLE TIME:       NO SAMPLE TAKEN         CITY, STATE:       PLEASANTON, CA.       SAMPLE CONTAINERS:       N/A         STIE CONTACT:       ROB MONZ       PRESERVATIVES:       N/A         CONSULTANT:       L F R       LAK ANALYSIS BY:       N/A         CONSULTANT:       L F R       LAK ANALYSIS BY:       N/A         PROJECT MANAGER:       JASON TROLO       MONUMENT:       POST         SAMPLE MEDIA:       GROUNDWATER       PLD. READING / DOOR:       N/A       N/A         OP OF CASING ELEVATION:       MELL CASING DIA::       2° /       0.1632         GALDETH TO WATER:       (GROUNDWATER       PLD. READING / DOOR:       N/A       N/A         DEPTH OF WATER:       (GROUNDWATER       PLD. READING / DOOR:       N/A       N/A         STANDING WATER COLUMN:       8.69       FEET       TOTAL VOLUME PURGED:       4.25       GAL         DEPTH OF WELL:       (GRAW)       PUMPING       pH       E. C.       TEMP.       OXSGEN       COLOR         CANNO GRAW       PUMPING       pH <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>											
PROJECT NAME:     LFR / HANSON     ANALYSIS PERFORMED:     N/A       ADDRESS:     EI. CHARRO ROAD     SAMPLE TIME:     NO SAMPLE TAKEN       CITY, STATE:     PLEASANTON, CA.     SAMPLE CONTAINERS:     N/A       SITE CONTACT:     ROB MONIZ     PRESERVATIVES:     N/A       CONSULTANT:     LFR     LAB. ANALYSIS BY:     N/A       CONSULTANT:     LFR     MANALYSIS BY:     N/A       FROJECT MANAGER:     JASON TROLO     MONUMENT:     POST       SAMPLE MEDIA:     OEL-TECH / DON LIGHT     WELL CASING MATERIAL:     PVC       SIGNED:     Sample MEDIA:     GROUNDWATER     PLD. READING / ODOR:     NA     NONE       TOP OF CASING ELEVATION:     MSL     COLOR:     LIGHT BROWN     DEPTH OF WELL:     (feet.100th's)     64.29     FEET     TOTAL VOLUME PURGED:     4.25     GAL.       STANDING WATER COLUMN:     8.69     FEET     DEPTH OF PUMP:     64     FEET       FIELD PARAMETERS       TIME     CUMULATIVE     DRAW     PUMPING     PMPING     OXYGEN     TURBIDITY       CANKG VOLLME     DRAW     PUMPING     PH     E. C.     TEMP.     OXYGEN     TURBIDITY       COMULATIVE     DRAW     PUMPING     PH     E. C.     TEMP.     OXYGEN <th>SAM</th> <th>PLE LOCATIO</th> <th>ON/MW-</th> <th>8</th> <th></th> <th>DATE:</th> <th></th> <th></th> <th>6/13/2008</th> <th></th>	SAM	PLE LOCATIO	ON/MW-	8		DATE:			6/13/2008		
PROJECT NAME:       LFR / HANSON       ANALYSIS PERFORMED:       N/A         ADDRESS:       EL CHARRO ROAD       SAMPLE TIME:       NO SAMPLE TAKEN         CITY, STATE:       PLEASANTON, CA.       SAMPLE TIME:       N/A         SITE CONTACT:       ROB MONIZ       PRESERVATIVES:       N/A         CONSULTANT:       L F R       LAB. ANALYSIS BY:       N/A         CONSULTANT:       DETECH / DON LIGHT       WELL CASING MATERIAL :       PVC         SIGNED:       DETECH / DON LIGHT       WELL CASING MATERIAL :       PVC         SIGNED:       DETECH / DON LIGHT       WELL CASING DIA :       2" / 0.1632         SAMPLE TMEDIA:       CROUNDWATER       PLD. READING / DOOR:       NA       NONE         TOP OF CASING ELEVATION:       MSL       COLOR:       LIGHT BROWN       DEPTH OF WELL:       (ecluoth's)       5.6.0       FEET       TOTAL VOLUME PURGED:       4.25       GAL.         DEPTH OF WELL:       (feellouth's)       5.6.0       FEET       DEPTH OF PUMP:       64       FEET         TIME       CUMULATIVE       DRAW       PUMPING       pH       E. C.       TEMP.       OXYGEN       COLOR         VELL SANG VOLUME       DOWN       RATE       ''       6.5.1       1932       2											
ADDRESS:       EL CHARRO ROAD       SAMPLE TIME:       NO SAMPLE TAKEN         CITY, STATE:       PLEASANTON, CA.       SAMPLE CONTAINERS:       N/A         SITE CONTACT:       ROB MONIZ       PRESERVATIVES:       N/A         CONSULTANT:       L F R       LAB. ANALYSIS BY:       N/A         PROJECT MANAGER:       JASON TRIOLO       MONUMENT:       POST         SAMPLE REDIA:       GROUNDWATER       PLD, READING / ODOR:       N/A         SIGNED:       Sample released / Color:       LIGHT BROWN         DEPTH OF WELL:       (fect.100h's)       55.60       FEET       CALC, PURGE VOL.:       I.42       GAL         TOP OF CASING ELEVATION:       MSL       COLOR:       LIGHT BROWN         DEPTH OF WELL:       (fect.100h's)       55.60       FEET       DTAL VOLUME PURGED:       4.25       GAL         STANDING WATER COLUMN:       8.69       FEET       DTAL VOLUME PURGED:       4.25       GAL         STANDING WATER COLUMN:       BRAW       PUMPING       PH       E. C.       TEMP.       O.R.P.       DISSOLVED       TURBIDITY         CANG VOLUME       DRAW       PUMPING       PH       E. C.       TEMP.       O.C.D.R.       OCOCOCOLOR       (CAL       OCOCOLOR       (CAL	PROJE	ECT NAME:	LFR	/ HANSON		ANALYS	IS PERFC	ORMED:	N/A		
CITY, STATE:       PLEASANTON, CA.       SAMPLE CONTAINERS:       N/A         SITE CONTACT:       ROB MONIZ       PRESERVATIVES:       N/A         CONSULTANT:       L FR       LAB. ANALYSIS BY:       N/A         PROJECT MANAGER:       JASON TRIOLO       MONUMENT:       POST         SAMPLER:       DELTECH/ DON LIGHT       WELL CASING MATERIAL:       PVC         SIGNED:       DETECH/ DON LIGHT       WELL CASING MATERIAL:       PVC         SIGNED:       DETECH/ DON LIGHT       WELL CASING OLOR:       N/A       NONE         TOP OF CASING ELEVATION:       MSL       COLOR:       LIGHT BROWN       OL         DEPTH TO WATER:       (Feet.100th's)       55.60       FET       TOTAL VOLUME PURCED:       4.25       GAL         STANDING WATER COLUMN:       8.69       FEET       TET       TOTAL VOLUME PURCED:       4.25       GAL         STANDING WATER COLUMN:       8.69       FEET       DEPTH OF PURCED:       4.25       GAL         STANDING WATER COLUMN:       8.69       FEET       TEME OFTHOF VOLUME PURCED:       4.25       GAL         STANDING WATER COLUMN:       8.69       FEET       ORAW       OXYGEN       COLOR       COLOR         STANDING WATER COLUMN:       8.69	ADDR	ESS:	ELCH	ARRO ROAI	D	SAMPLE	TIME:		NO SAMPLE T	AKEN	
SITE CONTACT:     ROB MONIZ     PRESERVATIVES:     N/A       CONSULTANT:     L F R     LAB.ANALYSIS BY:     N/A       IROLECT MANAGER:     JASON TRIOLO     MONUMENT:     POST       SAMPLER:     DEL-TECH/JON LIGHT     WELL CASING MATERIAL:     PVC       SIGNED:     WELL CASING MATERIAL:     PVC       SAMPLE MEDIA:     GROUNDWATER     PLD. READING / ODOR:     LIGHT BROWN       DEPTH TO WATER:     (feet.100th's)     55.60     FEET     CALC. PURGE VOL.:     1.42     GAL.       DEPTH TO WATER:     (feet.100th's)     55.60     FEET     DTAL VOLUME PURGED:     4.25     GAL.       STANDING WATER COLUMN:     8.69     FEET     DTAL VOLUME PURGED:     4.25     GAL.       TIME     CUMULATIVE     DRAW     PUMPING     PH     E. C.     TEMP.     O.ST.O.     OXYGEN     COLOR       0     N/A     0.5 GPM     6.83     1674     20.8     78     3.9     887       1.42     "     "     6.52     1593     20.1     67     2.8     1000       2.84     "     "     6.50     1593     20.1     65     2.3     "       7.09     "     "     6.50     1593     20.1     65     2.3     "	CITY.	STATE:	PLEAS	ANTON, CA	<u>.</u>	SAMPLE	CONTAI	NERS:	N/A		
CONSULTANT:       LPR       LAB. ANALYSIS BY:       N/A         PROJECT MANAGER:       JASON TRIOLO       MONUMENT:       POST         SAMPLER:       DEL-TECH / DON LIGHT       WELL CASING DIA.:       PVC         SIGNED:       DE-TECH / DON LIGHT       WELL CASING DIA.:       2" / 0.1632         SAMPLE MEDIA:       GROUNDWATER       PLD. READING / ODOR:       N/A       NONE         DEPTH TO WATER:       (feel.100th's)       55.60       FEET       CALC. PURGE VOL.:       1.42       GAL.         DEPTH TO WATER:       (feel.100th's)       55.60       FEET       TOTA VOLUME PURGED:       4.25       GAL.         STANDING WATER COLUMN:       8.69       FEET       DEPTH OF PUMP:       64       FEET         TIME       CUMULATIVE       DRAW       PUMPING       pH       E. C.       TEMP.       O.R.P.       DISSOLVED       TURBIDITY         CASING VOLUME       DRAW       PUMPING       pH       E. C.       TEMP.       O.R.P.       DISSOLVED       TURBIDITY         CASING VOLUME       DRAW       PUMPING       pH       E. C.       TEMP.       O.R.P.       DISSOLVED       OXYGEN       COLOR         VELL       CASING VOLUME       DOWN       RATE       (mithy)<	SITE (	ONTACT:	RO	B MONIZ		PRESER	VATIVES	•	N/A		
PROJECT MANAGER:       JASON TRIOLO       MONUMENT:       POST         SAMPLER:       DEL/TECH / DON LIGHT       WELL CASING MATERIAL :       PVC         SIGNED:       Sample media:       GROUNDWATER       PLD. READING / ODOR:       N/A       NONE         SAMPLE MEDIA:       GROUNDWATER       PLD. READING / ODOR:       N/A       NONE         DOP OF CASING ELEVATION:       MSL       COLOR:       LIGHT BROWN         DEPTH TO WATER:       (feet.100th's)       55.60       FEET       CALC. PURGE VOL.:       1.42       GAL         DEPTH OF WELL:       (feet.100th's)       64.29       FEET       TOTAL VOLUME PURGED:       4.25       GAL         STANDING WATER COLUMN:       8.69       FEET       DET DEPTH OF PUMP:       64       FEET         TIME       CUMULATIVE       DRAW       PUMPING       pH       E. C.       TEMP.       O.R.P.       DISSOLVED       TURBIDITY         0       N/A       0.5 GPM       68.3       1674       20.8       78       3.9       887         1.42       "       "       6.52       20.1       67       2.8       1000         2.84       "       "       6.51       1593       20.1       67       2.8	CONSU	ULTANT:	RO	LFR		LAB. AN	ALYSIS B	Y:	N/A		
PROJECT MANAGER:       JASON TRIOLO       MONUMENT:       POST         SAMPLER:       DEL-TECH/DON LIGHT       WELL CASING MATERIAL:       PVC         SIGNED:       PLD. READING / ODOR:       N/A       NONE         TOP OF CASING ELEVATION:       MSL       COLOR:       LIGHT BROWN         DEPTH TO WATER:       (rect.louth's)       55.60       FEET       CALC. PURGE VOL::       1.42       GAL.         DEPTH OF WELL:       (rect.louth's)       55.60       FEET       TOTAL VOLUME PURGED:       4.25       GAL.         STANDING WATER COLUMN:       8.69       FEET       DEPTH OF PUMP:       64       FEET         TIME       CUMULATIVE       DRAW       PUMPING       pH       E. C.       TEMP.       O.R.P.       DISSOLVED       OXYGEN       (N.LU.)         0       N/A       0.5 GPM       6.83       1674       20.8       78       3.9       887         1.42       "       "       6.58       1622       20.1       73       2.8       900         2.84       "       "       6.51       1593       20.1       67       2.8       1000         4.25       "       "       6.50       1593       20.1       65											
SAMPLER:         DEL-TECH / DON LIGHT         WELL CASING MATERIAL :         PVC           SIGNED:         WELL CASING MATERIAL :         PVC           SAMPLE MEDIA:         GROUNDWATER         PLD. READING (DODR:         N/A         NONE           TOP OF CASING ELEVATION:         MSL         COLOR:         LIGHT BROWN         COLOR:         I.IGHT BROWN           DEPTH TO WATER:         (feet.100th's)         55.60         FEET         CALC, PURGE VOL.:         1.42         GAL.           STANDING WATER COLUMN:         8.69         FEET         DEPTH OF PUMP:         64         FEET           TIME         CCMULATIVE         DRAW         PUMPING         pH         E. C.         TEMP.         O.R.P.         DISSOLVED         TURBIDITY           CASING VOLUME         DOWN         RATE         (umits)         (UmH06s)         (Celus)         (Mvolts)         (PPM)         (N.L.U.)           0         N/A         0.5 GPM         6.83         1625         20.1         73         2.8         900           2.84         "         "         6.51         1593         20.1         67         2.8         10000           4.25         "         "         6.50         1593         20.1	PROJE	ECT MANAGER:	JASC	ON TRIOLO		MONUM	ENT:		POST		
SIGNED:         Same arg         WELL CASING DIA.:         2" /         0.1632           SAMPLE MEDIA:         GROUNDWATER         PLD. READING / DOR:         N/A         NONE           TOP OF CASING ELEVATION:         MSL         COLOR:         LIGHT BROWN           DEPTH TO WATER:         (feet.100th's)         55.60         FEET         CALC. PURGE VOL::         1.42         GAL.           DEPTH OF WELL:         (feet.100th's)         64.29         FEET         TOTAL VOLUME PURGED:         4.25         GAL.           STANDING WATER COLUMN:         8.69         FEET         DEPTH OF PUMP:         64         FEET           TIME COMULATIVE (PURGE DRAW PUMPING RATE (OLUME PURGED)         4.25         GAL         GOLOR         (N.R.U.)           0         N/A         0.5 GPM         6.83         1674         20.8         78         3.9         887           1.42         "         "         6.51         1593         20.1         67         2.8         900           2.84         "         "         6.51         1593         20.1         67         2.8         900           4.25         "         "         6.50         1593         20.1         65         2.3	SAMP	LER:	DEL-TEC	H / DON LIC	HT	WELL C	ASING M	ATERIAL :	PVC		
SAMPLE MEDIA:       GROUNDWATER       P.LD. READING / ODOR:       N/A       NONE         TOP OF CASING ELEVATION:       MSL       COLOR:       LICHT BROWN         DEPTH TOWATER:       Recl.100th's)       55.60       FEET       CALC. PURGE VOL.:       1.42       GAL.         DEPTH OF WELL:       (feet.100th's)       64.29       FEET       TOTAL VOLUME PURGED:       4.25       GAL.         STANDING WATER COLUMN:       8.69       FEET       DEPTH OF PUMP:       64       FEET         FIELD PARAMETERS         TIME CUMULATIVE DARAW PUMPING (mits) (mits) (mits) (mits) (mits) (mits)       OXR P.       DISSOLVED TURBIDITY (OXTGEN OXTGEN (N.T.L.)         0       NA       0.5 GPM 6.83       1674       20.8       78       3.9       887         1.42       "       "       6.52       1594       20.1       67       2.8       900         2.84       "       "       6.50       1593       20.1       68       3       "         2.85       "       "       6.50       1593       20.1       65       2.3       "         1.42       "       "       6.50       1593       20.1	SIGNE	 D:		Jon Figh	t	WELL C	ASING DI	A.:	2" /	0.1632	
TOP OF CASING ELEVATION:         MSL         COLOR:         LIGHT BROWN           DEPTH TO WATER:         (feet.100th's)         55.60         FEET         CALC. PURGE VOL.:         1.42         GAL.           DEPTH TO WATER:         (feet.100th's)         64.29         FEET         TOTAL VOLUME PURGED:         4.25         GAL.           STANDING WATER COLUMN:         8.69         FEET         DEPTH OF PUMP:         64         FEET           TOTAL VOLUME PURGED:         4.25         GAL.           STELD PARAMETERS           OXYGEN           OUNN RATE           GENULATIVE DRAW PUMPING PH E. C. TEMP. O.R.P. DISSOLVED TURBIDITY COLOR           OXYGEN           OXYGEN           OXYGEN           OXYGEN           OLOR           OXYGEN            6.52         1593 <th>SAMP</th> <th>LE MEDIA:</th> <th>GROU</th> <th>JNDWATER</th> <th></th> <th>P.I.D. RE</th> <th>ADING /</th> <th>ODOR:</th> <th>N/A</th> <th>NONE</th>	SAMP	LE MEDIA:	GROU	JNDWATER		P.I.D. RE	ADING /	ODOR:	N/A	NONE	
DEPTH TO WATER:         (feet.100th's)         55.60         FEET         CALC. PURGE VOL.:         1.42         GAL.           DEPTH OF WELL:         (feet.100th's)         64.29         FEET         TOTAL VOLUME PURGED:         4.25         GAL.           STANDING WATER COLUMN:         8.69         FEET         DEPTH OF PUMP:         64         FEET           FIELD PARAMETERS           TIME         CUMULATIVE         DRAW           PARAMET         (mits)         (UmMHOS)         (Celsius)         (Wrolts)         (PPM)         (N.T.U.)           0         N/A         0.5 GPM         6.83         1674         20.8         78         3.9         887           1.42         "         "         6.51         1594         20.1         67         2.8         1000           4.25         "         "         6.50         1593         20.1         669         3.0         "           5.67         "         "         6.50         1593         20.1         65         2.3         "           7.09         "         "         6.50         1593         20.1         65         2.3         "           TOTA	TOP O	F CASING ELEV	ATION:		MSL	COLOR:			LIGHT BROWN		
DEPTH OF WELL:         (feet.100th's)         64.29         FEET         TOTAL VOLUME PURGED:         4.25         GAL.           STANDING WATER COLUMN:         8.69         FEET         DEPTH OF PUMP:         64         FEET           DEPTH OF PUMP:         64         FEET           TIME         CUMULATIVE CASING VOLUME         DRAW         PUMPING RATE         PH         E. C.         TEMP.         O.R.P.         DISSOLVED         TURBIDITY COLOR           PER PURGE         (D.T.W.)         (GPMI PM)         (units)         (Cesius)         (Mvoits)         (PPM)         (v.T.U.)           0         N/A         0.5 GPM         6.58         1625         20.1         73         2.8         900           4.25         "         "         6.51         1593         20.1         67         2.8         1000           4.25         "         "         6.50         1593         20.1         68         3         "           7.09         "         "         6.50         1590         20.1         65         2.3         "           TORGE METHOD:         4 FOOT STAINLESS STEEL BAILER.           SAMPLE METHOD:         4 FOOT STAINLES	DEPTH	H TO WATER:	(feet.100th's)	55.60	FEET	CALC. P	URGE VO	DL.:	1.42	GAL.	
STANDING WATER COLUMN:         8.69         FEET         DEPTH OF PUMP:         64         FEET           FIELD PARAMETERS           FIELD PARAMETERS           TUME CUMULATIVE DRAW DOWN RATE (SING VOLUME DOWN (D.T.W.)         (Image Declaration (I	DEPTH	H OF WELL:	(feet.100th's)	64.29	FEET	TOTAL V	OLUME	PURGED:	4.25	GAL.	
FIELD PARAMETERS           FIELD PARAMETERS           TIME         CUMULATIVE         DRAW         PUMPING         pH         E.C.         TEMP.         O.R.P.         DISSOLVED         TURBIDITY      COLOR           0         NAW         O.R.P.         DISSOLVED         CURBIDITY           0         NAW         O.R.P.         DISSOLVED         CULOR           0         N/A         0.5 GPM         6.53         1674         20.8         7.8         3.9         887           1.422         "         6.52         1594         20.1         67         2.8         900           4.2.84         "         6.51         1593         20.1         65         2.3         "           4         FOOT STAINLESS STEEL BAILER           SAMPLE METHOD:         WATERRA PUMP / W SURGE BLOCK </th <th>STANI</th> <th>DING WATER CO</th> <th>OLUMN:</th> <th>8.69</th> <th>FEET</th> <th>DEPTH C</th> <th><b>F PUMP:</b></th> <th></th> <th>64</th> <th>FEET</th>	STANI	DING WATER CO	OLUMN:	8.69	FEET	DEPTH C	<b>F PUMP:</b>		64	FEET	
FIELD PARAMETERS           FIELD PARAMETERS           TIME         CUMULATIVE         DRAW         PUMPING         pH         E.C.         TEMP.         OLS.P.         DISSOLVED         TURBIDITY      COLOR           0         N/A         0.5 GPM         6.83         1674         20.8         78         3.9         887           1.42         "         "         6.58         1625         20.1         73         2.8         900           2.84         "         "         6.51         1593         20.1         67         2.8         1000           4.25         "         "         6.50         1593         20.1         68         3         "           7.09         "         "         6.50         1590         20.1         65         2.3         "           PURGE METHOD:         VENTION: WATERA PUMP/W SURGE BLOCK           D.T. wAFTER PURGE:         5.66'           TOTAL DEPTH AFTER PURGE:         5.96'           TOTAL DEPTH AFTER PURGE:         6.4.27'							- 2				
TIME         CUMULATIVE CASING VOLUME         DRAW DOWN         PUMPING RATE         pH         E. C.         TEMP.         O.R.P.         DISSOLVED OXYGEN         TURBIDITY COLOR           0         N/A         0.5 GPM         6.83         1674         20.8         78         3.9         887           1.42         "         "         6.52         1594         20.1         67         2.8         900           2.84         "         "         6.52         1594         20.1         67         2.8         900           4.25         "         "         6.51         1593         20.1         69         3.0         "           7.09         "         6.50         1593         20.1         65         2.3         "           PURGE METHOD:         4 FOOT STAINLESS STEEL BAILER.           SAMPLE METHOD:           WATERRA PUMP / W SURGE BLOCK           D. T. W. AFTER PURGE:         55.96'           WELL LOCATION:           SEE SITE MAP.           REMARKS:           WELL LOCATION:           SEE SITE MAW.           UIPURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN				FIEI	LD PAI	RAMETE	RS				
TIME         CUMULATIVE         DRAW         PUMPING         pH         E. C.         TEMP.         O.R.P.         DISSOLVED         TURBIDITY           QXYGEN         (D.T.W.)         (RATE         (units)         (UnMHOS)         (Celius)         (Mvolts)         (CPM)         (N.U.U)           0         N/A         0.5 GPM         6.83         1674         20.8         78         3.9         887           1.42         "         "         6.58         1625         20.1         73         2.8         900           2.84         "         "         6.51         1593         20.1         67         2.8         1000           4.25         "         "         6.50         1593         20.1         68         3         "           7.09         "         "         6.50         1590         20.1         65         2.3         "           PURGE METHOD:         WATERA PUMP /W SURGE BLOCK           D.T. W. AFTER PURGE:         55.96'         55.96'         55.96'         55.96'         55.96'           TOTAL DEPTH AFTER PURGE:         64.27'           WELL INTEGRITY:         CAP & SEAL ARE SECURE.         WAPCRAPUMP /W SURGE BLOCK											
CASING VOLUME         DOWN         RATE         OXYGEN         COLOR           PER PURGE         (D.T.W.)         (GPWIPM)         (units)         (UmMHOS)         (Celsius)         (Mvolts)         (OPM)         (N.T.U.)           0         N/A         0.5 GPM         6.83         1674         20.8         78         3.9         887           1.42         "         "         6.52         1594         20.1         67         2.8         1000           4.25         "         "         6.51         1593         20.1         69         3.0         "           5.67         "         "         6.50         1593         20.1         65         2.3         "           7.09         "         "         6.50         1593         20.1         65         2.3         "           PURGE METHOD:         4 FOOT STAINLESS STEEL BAILER.           SAMPLE METHOD:         WATERRA PUMP / W SURGE BLOCK           D. T. W. AFTER PURGE:         55.96'         TOTAL DEPTH AFTER PURGE:         55.96'           TOTAL DEPTH AFTER PURGE:         64.27'           WELL INTEGRITY:         CAP & SEAL ARE SECURE.         WELL IOCATION:         SEE SITE MAP. <th>TIME</th> <th>CUMULATIVE</th> <th>DRAW</th> <th>PUMPING</th> <th>pН</th> <th><b>E.</b> C.</th> <th>TEMP.</th> <th>O.R.P.</th> <th>DISSOLVED</th> <th>TURBIDITY</th>	TIME	CUMULATIVE	DRAW	PUMPING	pН	<b>E.</b> C.	TEMP.	O.R.P.	DISSOLVED	TURBIDITY	
PER PURGE         (D.T.W.)         (GPM/LPM)         (umits)         (UmMHOS)         (Ceksins)         (Mvolts)         (PPM)         (N.T.U.)           0         N/A         0.5 GPM         6.83         1674         20.8         78         3.9         887           1.42         "         "         6.52         1594         20.1         73         2.8         900           2.84         "         "         6.52         1594         20.1         67         2.8         1000           4.25         "         "         6.51         1593         20.1         69         3.0         "           7.09         "         "         6.50         1593         20.1         68         3         "           7.09         "         "         6.50         1590         20.1         65         2.3         "           PURGE METHOD:         4 FOOT STAINLESS STEEL BAILER.           SAMPLE METHOD:         WATERA PUMP / W SURGE BLOCK           D.T. W. AFTER PURGE:         55.96'         TOTAL DEPTH AFTER PURGE:         64.27'           WELL INTEGRITY:         CAP & SEAL ARE SECURE.         WELL INTEGRITY:         CAP & SEAL ARE SECURE.           W		CASING VOLUME	DOWN	RATE					OXYGEN	COLOR	
0         N/A         0.5 GPM         6.83         1674         20.8         78         3.9         887           1.42         "         "         6.58         1625         20.1         73         2.8         900           2.84         "         "         6.52         1594         20.1         67         2.8         1000           4.25         "         "         6.51         1593         20.1         69         3.0         "           5.67         "         "         6.50         1593         20.1         68         3         "           7.09         "         "         6.50         1590         20.1         65         2.3         "           PURGE METHOD:         4 FOOT STAINLESS STEEL BAILER.           SAMPLE METHOD:           WATERA PUMP / W SURGE BLOCK           D. T. W. AFTER PURGE:         55.96'           TOTAL DEPTH AFTER PURGE:         64.27'           WELL INTEGRITY:         CAP & SEAL ARE SECURE.         WELL LOCATION:         SEE SITE MAP.           REMARKS:         "         "         10.0.7.17 55 GAL STEEL DRUM OR 60 GAL POLY DRUM.           QUALITY CONTROL:         ALL P		PER PURGE	( <b>D.T.W.</b> )	(GPM/LPM)	(units)	(UmMHOS)	(Celsius)	(Mvolts)	(PPM)	(N.T.U.)	
1.42         "         "         6.58         1625         20.1         73         2.8         900           2.84         "         "         6.52         1594         20.1         67         2.8         1000           4.25         "         "         6.51         1593         20.1         69         3.0         "           5.67         "         "         6.50         1593         20.1         68         3         "           7.09         "         "         6.50         1590         20.1         65         2.3         "           PURGE METHOD:         4 FOOT STAINLESS STEEL BAILER.           SAMPLE METHOD:         WATERRA PUMP / W SURGE BLOCK           D. T. W. AFTER PURGE:         55.96'         TOTAL DEPTH AFTER PURGE:         64.27'           WELL INTEGRITY:         CAP & SEAL ARE SECURE.         WELL LOCATION:         SEE SITE MAP.           REMARKS:         "         "         NONE         "           QUALITY CONTROL:         ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE         FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.           CONTAINMENT:         D.O.T. 17 55 GAL STEEL DRUM OR 60 GAL. POLY DRUM.         " <td c<="" th=""><th></th><th>0</th><th>N/A</th><th>0.5 GPM</th><th>6.83</th><th>1674</th><th>20.8</th><th>78</th><th>3.9</th><th>887</th></td>	<th></th> <th>0</th> <th>N/A</th> <th>0.5 GPM</th> <th>6.83</th> <th>1674</th> <th>20.8</th> <th>78</th> <th>3.9</th> <th>887</th>		0	N/A	0.5 GPM	6.83	1674	20.8	78	3.9	887
2.84         "         "         6.52         1594         20.1         67         2.8         1000           4.25         "         "         6.51         1593         20.1         69         3.0         "           5.67         "         "         6.50         1593         20.1         68         3         "           7.09         "         "         6.50         1590         20.1         65         2.3         "           PURGE METHOD:         4 FOOT STAINLESS STEEL BALLER.         Sample METHOD:         WATERRA PUMP / W SURGE BLOCK         0         10.1         65         2.3         "         10.1           PURGE METHOD:         WATERRA PUMP / W SURGE BLOCK         0         10.1         64.27         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1         10.1		1.42	"	"	6.58	1625	20.1	73	2.8	900	
4.25         "         "         6.51         1593         20.1         69         3.0         "           5.67         "         "         6.50         1593         20.1         68         3         "           7.09         "         "         6.50         1593         20.1         65         2.3         "           PURGE METHOD:         4 FOOT STAINLESS STEEL BAILER.         SAMPLE METHOD:         WATERRA PUMP / W SURGE BLOCK         D.         Waterran Purge:         55.96'           TOTAL DEPTH AFTER PURGE:         55.96'         55.96'         TOTAL DEPTH AFTER PURGE:         64.27'           WELL INTEGRITY:         CAP & SEAL ARE SECURE.         WELL LOCATION:         SEE SITE MAP.           REMARKS:         "         "         "         NONE           QUALITY CONTROL:         ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.         CONTAINMENT:         D.O.T. 17 55 GAL STEEL DRUM OR 60 GAL POLY DRUM.           INSTRUMENTATION:         Y.S.I. 3560 FLOWCELL         Y.S.I. DISSOLVED OXYGEN METER         SOLINIST SLOPE METER         THERMODINE 580B P.LD.           KECK INTERFACE METER         THERMODINE 580B P.LD.         N         0         0		2.84	"	"	6.52	1594	20.1	67	2.8	1000	
5.67         "         "         6.50         1593         20.1         68         3         "           7.09         "         "         6.50         1590         20.1         65         2.3         "           PURGE METHOD:         4 FOOT STAINLESS STEEL BAILER.           SAMPLE METHOD:         WATERRA PUMP / W SURGE BLOCK           D. T. W. AFTER PURGE:         55.96'		4.25	"	"	6.51	1593	20.1	69	3.0	"	
7.09       "       "       6.50       1590       20.1       65       2.3       "         PURGE METHOD:       4 FOOT STAINLESS STEEL BAILER.         SAMPLE METHOD:       WATERRA PUMP / W SURGE BLOCK         D. T. W. AFTER PURGE:       55.96'         TOTAL DEPTH AFTER PURGE:       64.27'         WELL INTEGRITY:       CAP & SEAL ARE SECURE.         WELL LOCATION:       SEE SITE MAP.         REMARKS:       "         QUALITY CONTROL:       ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.         CONTAINMENT:       D.O.T. 17 55 GAL STEEL DRUM OR 60 GAL. POLY DRUM.         INSTRUMENTATION:       Y.S.I. 3560 FLOWCELL       Y.S.I. DISSOLVED OXYGEN METER         SOLINIST SLOPE METER       THERMODINE 580B P.I.D.       KECK INTERFACE METER         # OF DRUMS ON SIGHT:       WATER:       0       SOIL:		5.67	"	"	6.50	1593	20.1	68	3	"	
PURGE METHOD:       4 FOOT STAINLESS STEEL BAILER.         SAMPLE METHOD:       WATERRA PUMP / W SURGE BLOCK         D. T. W. AFTER PURGE:       55.96'         TOTAL DEPTH AFTER PURGE:       64.27'         WELL INTEGRITY:       CAP & SEAL ARE SECURE.         WELL LOCATION:       SEE SITE MAP.         REMARKS:		7.09	"	"	6.50	1590	20.1	65	2.3	"	
PURGE METHOD:       4 FOOT STAINLESS STEEL BAILER.         SAMPLE METHOD:       WATERRA PUMP / W SURGE BLOCK         D. T. W. AFTER PURGE:       55.96'         TOTAL DEPTH AFTER PURGE:       64.27'         WELL INTEGRITY:       CAP & SEAL ARE SECURE.         WELL LOCATION:       SEE SITE MAP.         REMARKS:       WEATHER:         WARM & SUNNY.       WIND:         NONE         QUALITY CONTROL:       ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE         FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.         CONTAINMENT:       D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.         INSTRUMENTATION:       Y.S.I. 3560 FLOWCELL       Y.S.I. DISSOLVED OXYGEN METER         WATER:       0       SOIL:       0											
SAMPLE METHOD:       WATERRA PUMP / W SURGE BLOCK         D. T. W. AFTER PURGE:       55.96'         TOTAL DEPTH AFTER PURGE:       64.27'         WELL INTEGRITY:       CAP & SEAL ARE SECURE.         WELL LOCATION:       SEE SITE MAP.         REMARKS:	PURGI	E METHOD:		4 FOOT STAI	NLESS S	TEEL BAILE	R.				
D. T. W. AFTER PURGE: 55.96' TOTAL DEPTH AFTER PURGE: 64.27' WELL INTEGRITY: CAP & SEAL ARE SECURE. WELL LOCATION: SEE SITE MAP. REMARKS:  VWARM & SUNNY. WIND: NONE QUALITY CONTROL: ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES. CONTAINMENT: D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.  INSTRUMENTATION: Y.S.I. 3560 FLOWCELL Y.S.I. DISSOL VED OXYGEN METER SOLINIST SLOPE METER THERMODINE 580B P.LD. KECK INTERFACE METER TURBIDITY METER # OF DRUMS ON SIGHT: WATER: 0 SOIL: 0	SAMPI	LE METHOD:		WATERRA P	UMP / W	SURGE BLC	CK				
TOTAL DEPTH AFTER PURGE:       64.27'         WELL INTEGRITY:       CAP & SEAL ARE SECURE.         WELL LOCATION:       SEE SITE MAP.         REMARKS:	D. T. W	AFTER PURGE:		55.96'							
WELL INTEGRITY:       CAP & SEAL ARE SECURE.         WELL LOCATION:       SEE SITE MAP.         REMARKS:	TOTAL	DEPTH AFTER P	URGE:	64.27'							
WELL LOCATION:       SEE SITE MAP.         REMARKS:	WELL	INTEGRITY:		CAP & SEAL	ARE SEC	CURE.					
REMARKS:         WEATHER:       WARM & SUNNY.       WIND:       NONE         QUALITY CONTROL:       ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE         FIELD WITH A STEAMCLEANER & ALCONOX SOAP.       NEW NITRILE GLOVES.         CONTAINMENT:       D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.         INSTRUMENTATION:       Y.S.I. 3560 FLOWCELL       Y.S.I. DISSOLVED OXYGEN METER         SOLINIST SLOPE METER       THERMODINE 580B P.I.D.         KECK INTERFACE METER       TURBIDITY METER         # OF DRUMS ON SIGHT:       WATER:       0       SOIL:       0	WELL	LOCATION:		SEE SITE MA	AP.						
WEATHER:       WARM & SUNNY.       WIND:       NONE         QUALITY CONTROL:       ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE         FIELD WITH A STEAMCLEANER & ALCONOX SOAP.       NEW NITRILE GLOVES.         CONTAINMENT:       D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.         INSTRUMENTATION:       Y.S.I. 3560 FLOWCELL       Y.S.I. DISSOLVED OXYGEN METER         SOLINIST SLOPE METER       THERMODINE 580B P.LD.         KECK INTERFACE METER       TURBIDITY METER         # OF DRUMS ON SIGHT:       WATER:       0       SOIL:       0	REMA	RKS:									
WEATHER:       WARM & SUNNY.       WIND:       NONE         QUALITY CONTROL:       ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE         FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.         CONTAINMENT:       D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.         INSTRUMENTATION:       Y.S.I. 3560 FLOWCELL       Y.S.I. DISSOLVED OXYGEN METER         SOLINIST SLOPE METER       THERMODINE 580B P.I.D.         KECK INTERFACE METER       TURBIDITY METER         # OF DRUMS ON SIGHT:       WATER:       0       SOIL:       0											
QUALITY CONTROL:       ALL PURGING EQUIPMENT AND SAMPLING EQUIPMENT WAS CLEANED IN THE         FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.         CONTAINMENT:       D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.         INSTRUMENTATION:       Y.S.I. 3560 FLOWCELL       Y.S.I. DISSOLVED OXYGEN METER         SOLINIST SLOPE METER       THERMODINE 580B P.I.D.         KECK INTERFACE METER       TURBIDITY METER         # OF DRUMS ON SIGHT:       WATER:       0	WEAT	HER:		WARM & SU	NNY.		WIND:		NONE		
FIELD WITH A STEAMCLEANER & ALCONOX SOAP. NEW NITRILE GLOVES.         CONTAINMENT:       D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.         INSTRUMENTATION:       Y.S.I. 3560 FLOWCELL       Y.S.I. DISSOLVED OXYGEN METER         SOLINIST SLOPE METER       THERMODINE 580B P.I.D.         KECK INTERFACE METER       TURBIDITY METER         # OF DRUMS ON SIGHT:       WATER:       0       SOIL:       0	QUAL	TY CONTROL:		ALL PURGIN	G EQUIP	MENT AND S	AMPLING I	EQUIPMENT	WAS CLEANED IN	I THE	
CONTAINMENT:       D.O.T. 17 55 GAL. STEEL DRUM OR 60 GAL. POLY DRUM.         INSTRUMENTATION:       Y.S.I. 3560 FLOWCELL       Y.S.I. DISSOLVED OXYGEN METER         SOLINIST SLOPE METER       THERMODINE 580B P.I.D.         KECK INTERFACE METER       TURBIDITY METER         # OF DRUMS ON SIGHT:       WATER:       0       SOIL:       0				FIELD WITH	A STEAM	CLEANER &	ALCONOX	SOAP. NEW	NITRILE GLOVES.		
INSTRUMENTATION:       Y.S.I. 3560 FLOWCELL       Y.S.I. DISSOLVED OXYGEN METER         SOLINIST SLOPE METER       THERMODINE 580B P.LD.         KECK INTERFACE METER       TURBIDITY METER         # OF DRUMS ON SIGHT:       WATER:       0	CONTA	AINMENT:		D.O.T. 17 55	GAL. STE	EL DRUM O	R 60 GAL. F	OLY DRUM.			
INSTRUMENTATION:       Y.S.I. 3560 FLOWCELL       Y.S.I. DISSOLVED OXYGEN METER         SOLINIST SLOPE METER       THERMODINE 580B P.I.D.         KECK INTERFACE METER       TURBIDITY METER         # OF DRUMS ON SIGHT:       WATER:       0											
SOLINIST SLOPE METER     THERMODINE 580B P.I.D.       KECK INTERFACE METER     TURBIDITY METER       # OF DRUMS ON SIGHT:     WATER:     0     SOIL:     0	INSTR	UMENTATION:		Y.S.I. 3560 FLC	OWCELL		Y.S.I. DISSO	LVED OXYGE	IN METER		
KECK INTERFACE METER     TURBIDITY METER       # OF DRUMS ON SIGHT:     WATER:     0     SOIL:     0				SOLINIST SLO	PE METE	R	THERMODI	NE 580B P.I.D.			
# OF DRUMS ON SIGHT:     WATER:     0     SOIL:     0		DIRIGONGIC	T	KECK INTERF	ACE MET	ER	TURBIDITY	METER			
	# OF D	KUMS ON SIGH	1:	WATER:	0		501L:	0			



### DEL-TECH GEOTECHNICAL SUPPORT SERVICES

#### MONITORING WELL FIELD LOG 2008

SAM	PLE LOCATIO	ON/MW-	9		DATE:			6/13/2008	
PROJE	ECT NAME:	LFR	/ HANSON		ANALYS	IS PERFC	ORMED:	N/A	
ADDR	ESS:	EL CH	ARRO ROAI	D	SAMPLE	TIME:		NO SAMPLE T	AKEN
CITY,	STATE:	PLEAS	ANTON, CA	۱.	SAMPLE	CONTAI	NERS:	N/A	
SITE C	CONTACT:	RO	B MONIZ		PRESER	VATIVES	:	N/A	
CONS	ULTANT:		LFR		LAB. AN	ALYSIS B	SY:	N/A	
PROJE	ECT MANAGER:	JASC	ON TRIOLO		MONUM	ENT:		POST	
SAMP	LER:	DEL-TEC	H / DON LIC	GHT	WELL CA	ASING M	ATERIAL :	PVC	
SIGNE	ED:	1	Jon Figh	t	WELL CA	ASING DI	[ <b>A.</b> :	2" /	0.1632
SAMP	LE MEDIA:	GROU	JNDWATER		P.I.D. RE	ADING /	ODOR:	N/A	NONE
TOP O	F CASING ELEV	ATION:		MSL	COLOR:			LIGHT BROWN	ſ
DEPTI	H TO WATER:	(feet.100th's)	51.36	FEET	CALC. P	URGE VO	DL.:	0.61	GAL.
DEPTI	H OF WELL:	(feet.100th's)	55.07	FEET	TOTAL V	<b>OLUME</b>	<b>PURGED:</b>	1.82	GAL.
STANI	DING WATER CO	OLUMN:	3.71	FEET	DEPTH C	<b>OF PUMP</b> :		55	FEET
			FIEL	LD PAI	RAMETE	RS			
				TT	<b>D</b> C			DISCOLUTE	
TIME	CUMULATIVE	DRAW	PUMPING	рН	Е.С.	ТЕМР.	<b>O.R.P.</b>	DISSOLVED	TURBIDITY
	CASING VOLUME	DOWN	RATE					UAYGEN	COLOR
	PER PURGE	(D.T.W.)	(GPM/LPM)	(units)	(UmMHOS)	(Celsius)	(Mvolts)	(PPM)	(N.T.U.)
	0	N/A	0.2 GPM	6.01	2283	20.2	114	4.3	1000 +
	0.61	"		6.55	2007	19.4	128	4.2	
-	1.21			6.56	1894	19.4	129	4.0	
-	1.82			6.53	1726	19.4	134	4.8	
	2.42			6.50	1640	19.4	139	4.7	
	3.03			6.50	1600	19.2	140	5.5	
						_			
PURG	E METHOD:		4 FOOT STAL	NLESS S	TEEL BAILE	R.			
SAMP	LE METHOD:		WATERRA P	UMP / W	SURGE BLC	OCK			
D. T. W	V. AFTER PURGE:		51.50						
TOTAL	<u>DEPTH AFTER PO</u>	URGE:	<u>55.10'</u>						
WELL	INTEGRITY:		CAP & SEAL	ARE SEC	URE.				
WELL	LOCATION:		SEE SITE MA	$\frac{P}{P}$					
KENIA	KK5:		MUSIY ODG	JK / FAL	K KECHAKU	<u>јЕ.</u>			
WEAT	HER:		WARM & SU	NNY.		WIND:		NONE	
OUAL	ITY CONTROL:		ALL PURGIN	G EOUIP	MENT AND S	AMPLING	EOUIPMENT	WAS CLEANED IN	I THE
Quilla			FIELD WITH	A STEAM	ICLEANER &	ALCONOX	SOAP. NEW	NITRILE GLOVES	
CONT	AINMENT:		D.O.T. 17 55	GAL, STE	EEL DRUM O	R 60 GAL, F	POLY DRUM.		
					0	5.12.1			
INSTR	UMENTATION:		Y.S.I. 3560 FLO	OWCELL		Y.S.I. DISSC	LVED OXYGE	EN METER	
			SOLINIST SLO	PE METE	R	THERMODI	NE 580B P.I.D		
			KECK INTERF	ACE MET	ER	TURBIDITY	METER		
# OF D	RUMS ON SIGH	T:	WATER:	0		SOIL:	0		



# DEL-TECH geotechnical support services

#### MONITORING WELL FIELD LOG 2008

SAM	PLE LOCATIO	ON / MW -	10		DATE:			6/13/2008	
PROJE	ECT NAME:	LFR	/ HANSON		ANALYS	IS PERFC	ORMED:	N/A	
ADDR	ESS:	EL CH	ARRO ROAI	D	SAMPLE	TIME:		NO SAMPLE T	AKEN
CITY,	STATE:	PLEAS	ANTON, CA	۱.	SAMPLE	CONTAI	NERS:	N/A	
SITE C	CONTACT:	RO	B MONIZ		PRESER	VATIVES	:	N/A	
CONS	ULTANT:		LFR		LAB. AN	ALYSIS B	Y:	N/A	
PROJE	ECT MANAGER:	JASC	ON TRIOLO		MONUM	ENT:		POST	
SAMP	LER:	DEL-TEC	H / DON LIC	GHT	WELL CA	ASING M	ATERIAL :	PVC	
SIGNE	D:		Jon Figh	Ł	WELL C	ASING DI	A. :	2" /	0.1632
SAMP	LE MEDIA:	GROU	JNDWATER		P.I.D. RE	ADING /	ODOR:	N/A	NONE
TOP O	F CASING ELEV	VATION:		MSL	COLOR:			LIGHT BROWN	
DEPTH	H TO WATER:	(feet.100th's)	51.27	FEET	CALC. P	URGE VO	DL.:	0.95	GAL.
DEPTH	H OF WELL:	(feet.100th's)	57.08	FEET	TOTAL V	<b>OLUME</b>	<b>PURGED:</b>	2.84	GAL.
STANI	DING WATER C	OLUMN:	5.81	FEET	DEPTH C	<b>)F PUMP</b> :		57	FEET
			FIEI	LD PAI	RAMETE	RS			
		DDAW	DUDADDIG	11	БО	TEMD		DISCOLVED	TUDDIDITY
IIVIE	CUMULATIVE	DRAW	PUMPING	рн	<b>E.</b> C.	TEMP.	<b>U.K.</b> P.	DISSOLVED	
	CASING VOLUME	DOWN	RATE					OXYGEN	COLOR
	PER PURGE	(D.1.W.)	(GPM/LPM)	(units)	(UmviHOS)	(Celsius)	(Mvolts)	(PPM)	(N.T.U.)
	0	N/A	0.5 GPM	6.64	2275	22.1	117	6.2	1000 +
	0.95			6.60	2113	21.0	119	6.2	
	1.90		"	6.50	2103	20.2	123	5.2	
	2.84			0.57	2300	23.0	119	5.6	
	3.79			6.60	2271	22.7	119	5.9	
	4.74			0.60	2150	20.3	11/	5.8	
PURGI	E METHOD:		4 FOOT STAL	NLESS S	TEEL BAILE	<u>R.</u>			
SAMPI	LE METHOD:		WATERRA P	UMP / W	SURGE BLC	ICK			
D. T. W	<u>AFTER PURGE:</u>	UDGE	51.34						
TOTAL	DEPTH AFTER P	URGE:	57.02						
WELL	INTEGRITY:		CAP & SEAL	ARE SEC	CURE.				
DEMA	LUCATION:		SEE SITE MA	AP.					
KEMA	ККЗ:		PUKGE WA	<u>I EK 15 F</u>	UAMY				
WEAT	UED.		WADM & SI	NINIX		WIND.		NONE	
	HEK; ITV CONTROL •		MARIN & SU	$\frac{1}{C} = OUIP$	MENT AND S	AMPLING	FOUIPMENT	WAS CLEANED IN	THE
QUAL	ITT CONTROL.			A STEAM	ICLEANED &		SOAD NEW	WAS CLEANED IN	THE
CONT	AINMENT.		$\frac{\text{FIELD WITT}}{\text{DOT } 17.55}$	GAL STEAM	FEL DRUM O	R 60 GAL F	DOLY DRUM	WITKILE GLOVES.	
			D.0.1. 17 JJ	5/1L. 51L		1 00 UAL. I			
INSTR	UMENTATION:		Y.S.I. 3560 FLO	OWCELL		Y.S.I. DISSC	UVED OXYGE	N METER	
			SOLINIST SLO	PE METE	R	THERMODI	NE 580B P I D		
			KECK INTERF	ACE MET	ER	TURBIDITY	METER		
# OF D	RUMS ON SIGH	(T:	WATER:	0		SOIL:	0		
, , , , , , , , , , , , , , , , , , , ,									

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4

# WATER-LEVEL MEASUREMENTS LOG

Project No.	001-09567-07			D	ate: <u>6/16</u>	<u>5/08</u>	Page of
Project Nam	e: <u>Hanson Radu</u>	ım, AOC-1 Area		E	Day: 🗆 Su	in <b>K</b> ALMo	on 🗆 Tues 🖾 Weds 🗆 Thurs 🗆 Fri 🗆 Sat
Field Person	inel: <u>To</u> ~		raing				
General Obs	servations: 🧲	SUNNY C	lon-31	reez,			
WELL	WELL	DEPTH T	O WATER	WATER	WELL S	ECURE?	REMARKS (is extraction well operational?)
NO. MW-1	ELEVATION	5735	2 57. <b>35</b>	ELEVATION	Y	<u>N</u>	(UNITS = FEET)
MW-2		5539	55.39				10'.34
MW-3		54,53	54.53				10:47
MW-4		4877	48.77				10:05 measured in mus in bott. of well
MW-5		70.16	70.16				Idi7
MW-6		49.34	44.34				10;21
MW-7		57.21	57.21				10:30
MW-8		55.73	55,73				10:39
MW-9		51.48	51.48				1025
MW-10		5138	51.38				10:10
·····			· · · · · · · · · · · · · · · · · · ·				
		· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·
	-						· · · · · · · · · · · · · · · · · · ·

	. <u>.</u> .		· ·		. V	VATE	R-QU		r SAMPLING L	
		AQICI	67-07	7	Dale	6-1	6-0	8	Page o	)f
roject No		-0-1-50		<u></u>	Samplin	n Location	A	00+1	well Mw-1	
roject Name	_ NANG	ON WA	1) UM	<u> </u>	_ Outspins	9 2000000		Sample N	0. MW-1	
Sampler's Nam		·[			Dated 6	13/0	8	C O C. N		C
Sampling Plan	Ву	· · · · · · · · · · · · · · · · · · ·			Ualeu <u>o r</u>			n III	lion Bailer 🗇 Other	
Purge Method:	🗆 Centri	lugal Pump	Disposable					lan	WILL	
Purge Water S	itorage Cont	ainer Type 🚊	<u> </u>	tun VI	We Studye	Diconsid	·	<u> </u>		<u> </u>
Date Purge W	ater Dispose	ed						G	2.30	
	Analyses Re	quested	<b>-</b> ·	No. and	Type of Bottles	Used		ŝŚ	7.24	
TPUd/		S Voc.	<u> </u>	1 Am	11/11	X PM	N/		566	
TPHQ /	BARX	/Fuel c	<u>×</u>	3 VOA	WERC	<u> </u>	····	2	396	
Lab Name	CAT	· · · · · · · · · · · · · · · · · · ·	/					, ie	566	
Delivery By	Courier _			Hand		<u>.</u>			1056	
	MWM	1	Der	oth of Water	57.25	Þ			. · · ·	
Well No	<u></u>	4	Ve	ll Denth	52.90					
						<i>.</i> .				
well Diameter		[] 5" (1 02 da	ul/feet) Wa	ter Column H	leight 5	.66			·	
VVeil Ulameter	gal/feet)	☐ 5" (1.02 ga	u/feet) Wa	uter Column H	leight <u>5</u> . 0.9	.66		80% C	DTW	
vveil Ulameter 5(2" (0.16 ⊡ 4" (0.65	gal/feet) gal/feet)	□ 5" (1.02 ga □ 6" (1.47 ga	ul/feet) Wa ul/feet) We	iter Column H	leight <u>5</u>	.66	·	80% [	DTW	
VVeil (Jiameter 2" (0.16 1 4" (0.65 Time	; gal/feet) gal/feet) Inlet Depth	□ 5" (1.02 ga □ 6" (1.47 ga Depth to Water	l/feet) Wa l/feet) We Volume Purged (gal)	ter Column H Il Volume Totalizer Reading	leight <u>5</u> , <u>0,</u> 9 Temperature (C°)	рн (SU)	Cond (µmhos)	80% [	DTW	
vveil Diameter 2" (0.16 1 4" (0.65 Time ULLS	: gal/feet) gal/feet) Inlet Depth	□ 5" (1.02 ga □ 6" (1.47 ga Depth to Water	l/feet) Wa l/feet) We Volume Purged (gal)	ter Column H Il Volume Totalizer Reading	leight <u>5</u> , <u>0,</u> 9 Temperature (C°)	рн (SU)	Cond (µmhos)	80% [	Remarks BEBIN BA	Uni
VVeil Chameter 2" (0.16 1 4" (0.65 Time ULLS ULLS	: gal/feet) gal/feet) Inlet Depth	□ 5" (1.02 ga □ 6" (1.47 ga Depth to Water	l/feet) Wa l/feet) We Volume Purged (gal)	ter Column H Il Volume Totalizer Reading	teight <u>5</u> , <u>0,19</u> Temperature (C°) <u>19,4-6</u>	рн (SU) (6,82	Cond (µmhos) Con (20) (20) (20) (20) (20) (20) (20) (20)	80% [	Remarks BEBIN BAH TURBLD	
vveil Chameter 2" (0.16 1 4" (0.65 Time ULLS ULLS (1.220	; gal/feet) gal/feet) Inlet Depth	□ 5" (1.02 ga □ 6" (1.47 ga Depth to Water	Il/feet) Wa Il/feet) We Volume Purged (gal)	ter Column H Il Volume Totalizer Reading	leight <u>5</u> , 0,9 Temperature (C°) 19,46 19,73	рн (SU) 6,82 6,76	Cond (µmhos) = Con (2.05 (2.05 (2.05 (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05) (2.05)	80% [ 	Remarks BEGIN BAH TURBLD TURBLD	Uhy
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Vell Diameter $12^{2"}$ (0.16) 14" (0.65) Time 1404 1404 1404 1420 1420 1430 1443	gal/feet) gal/feet) Iniet Depth	□ 5" (1.02 g: □ 6" (1.47 g: Depth to Water	al/feet) Wa al/feet) Wa Volume Purged (gal) 1.5 1.5 1.5 1.5 1.5 1.5	ater Column eil Volume Totalizer Reading	Height <u>9.</u> 1.5 Temperature (C°) 19.39 18.31 18.41	рн (SU) 6,55 6,45 6,42 6,44	Cond (µmhos) CHYCun 687 614 668 587 668 583 668 583 668	80% I 2.46 2.76 3.30 43.40	Begins Fure Ture Ture	emarks AlCuly 47 - A'D 31D - BID - BID	×.
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Vell Diameter $\swarrow$ (2" (0.16) $\Box$ 4" (0.65)         Time $\lor$ 4.04 $\lor$ 4.04 $\lvert$ 4.04 $\lvert$ 4.04 $\lvert$ 4.03 $\lvert$ 4.3 $\lvert$ 4.43 $\lvert$ 4.43	gal/feet) gal/feet) Iniet Depth	□ 5" (1.02 g □ 6" (1.47 g Depth to Water	al/feet) Wa al/feet) Wa Volume Purged (gal) 1.5 2.5 4.5 6	ater Column ell Volume Totalizer Reading	Height 9. 1.5 Temperature (C°) 19.39 18.31 18.41	рн (SU) GSS G. 45 G. 42 G. 42 G. 44	Cond (µmhos) CME un 69 1 668 587 668 588 668 583 668	80% I 2.46 2.76 3.30 3.40	PIUR Begins TURB TURB TURI FUR SAMAPUR	emarks AlCilly 47 - BiD 31D BiD w-ell	
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Vell Diameter $\checkmark$ (2" (0.16) $\Box$ 4" (0.65)         Time $\land$ (0.65)         Time $\land$ (0.65) $\land$ (0.66) $\land$ (0.66) $\land$ (0.67)	gal/feet) gal/feet) Iniet Depth	□ 5" (1.02 gi □ 6" (1.47 gi Depth to Water 5-7-12	al/feet) Wa al/feet) Wa <u>Volume</u> Purged (gal) 1,5 1,5 1,5 1,5 1,5	ater Column ell Volume Totalizer Reading	Height <u>9.</u> Temperature (C°) 19.39 18.31 18.41	рн (su) (55 6.45 6.42 6.42	Cond (µmhos) CHIE 68 68 68 68 68 68 587	80% I 2.46 2.76 3.30 3.40	Begins Begins Ture Ture Ture Sprapte	emarks AlChy AlChy 31D 31D Well	
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Vell Diameter $2^{2^{*}}(0.16)$ $14^{*}(0.65)$ Time 14.04 14.04 14.04 14.04 14.04 14.30 14.30 15.13	gal/feet) gal/feet) Iniet Depth	□ 5" (1.02 g; □ 6" (1.47 g) Depth to Water	al/feet) Wa al/feet) Wa <u>Volume</u> Purged (gal) 1.5 4.5 6	ater Column ell Volume Totalizer Reading	Height 9. 1.5 Temperature (C°) 19.39 18.31 18.41	рн (SU) GSS G: 45 G: 42 G: 42 G: 42	Cond (umhos) CME 68 68 66 587 66 583 66 583 66 583	80% I	PTW Begins TURS TURS TURS SAMAPLE	emarks Alling 47 -BiD 315 Bol D W-ell	
Vell Diameter $12^{\circ}$ (0.16) $14^{\circ}$ (0.65) Time 1404 1404 1404 1420 1430 1430 1513	gal/feet) gal/feet) Iniet Depth	□ 5" (1.02 g; □ 6" (1.47 g) Depth to Water 57.12	al/feet) Wa al/feet) Wa <u>Volume</u> Purged (gal) 1,5 4,5 6	ater Column ell Volume Totalizer Reading	Height <u>9.</u> 1.5 Temperature (C°) 19.39 18.31 18.41 	рн (SU) GSS G. 45 G. 42 G. 42 G. 42 G. 42	Cond (umhos) CMC un 69 1 668 587 668 583 668 583	80% I	PTW Begins Ture Ture Ture Strapte	emarks Alling GiD 31D Bal W-ell	
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Well Diameter: $X 2^{*} (0.16 g)$ $\Box 4^{*} (0.65 g)$ <u>Time</u> <u>12.42</u> <u>12.44</u> <u>12.53</u>	gal/feet) gal/feet) Inlet Depth	□ 5" (1.02 g □ 6" (1.47 g ☐ Depth to Water ☐ ↓ ↓ ↓	We al/feet) Wa al/feet) We Purged (gal)	Il Depth ater Column H sll Volume Totalizer Reading	6 Height 5. -84 Temperature (C°) 19.61 -18.90	27 (4 num (1 (EFF)) 6.81 6.58	8.58 .37) M5 (cm (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond) (cond)	80% C Turb (NTU)	2.86 DTW <u>57.1</u> DO Re 2.11	<u>цS</u> emarks	
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Well No. Well Dlameter \$\$2" (0.16 E1 4" (0.65 Tims 16 58 (7:00 17:00 17:00 17:00 17:00 17:00	<u>MAN</u> gal/feet) ( gal/feet) ( <u>Inlet</u> Depth	) - (D □ 5" (1.02 gr □ 6" (1.47 gr Depth to Water M P	Dep We al/feet) Wa al/feet) We Purged (gal) 1.0 2.0 3.25 4.25 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5	oth of Water II Depth ter Column H II Volume Totalizer Reading		2,8 -09 - 	Cond (umhos) 118/02 1207/1075 1214/1090 1218/ 1091	80% [ DO Inter (NTU) 2.33 1.9.7 2.43 2.43	) 1 3 DTW DEgy Degy	G Remar VBA Tu Tu Tu Tu	KS 4/1/4 16:0 (6:0 (6:0	)
Well No Well Dlameter ) 27 (0.16 E1 4" (0.65 Time 16 58 (7:00) 17:00 17:00 17:00 17:00	<u>gal/feet)</u> gal/feet) Inlet Depth	Depth to Water	Dep We al/feet) Wa al/feet) We Purged (gal) 1.0 2.0 3.25 4.25 5.5	oth of Water II Depth ter Column H II Volume Totalizer Reading	51 - 57 57 0.9 Temperature (C°) 19.01 19.15 19.18 19.16	28 -09 M (su) 701 6.87 6.88 6.87	Cond (umhos) 118/102 1207/1015 1214/1030 1218/ 1081	80% [ DO Turb (NTU) 2.33 1.9.7 2.43 2.43 2.45	13 nw	Remar VJ SA Tu Tu Tu Tu	Ks 4/1/4 16:0 16:0 16:0	)
Well No Well Dlameter ) 22" (0.16 El 4" (0.65 Time 16 58 (7:00 17:04 17:04 17:04 17:04	<u>gal/feet)</u> gal/feet) tniet Depth	D = 10 $T = 100  gr$ $T = 100  g$	Dep We al/feet) Wa al/feet) We Purged (gal) 1.0 2.0 3.25 4.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25 5.25	oth of Water II Depth ter Column H II Volume Totalizer Reading	51 - 57 teight $57$ 0.9 Temperature (C°) 19.15 19.18 19.18 19.16	28 -09 M (su) 7.01 6.87 6.88 6.87	Cond (umhos) 118/102 1207/1035 1214/10380 1218/1081	80% [ DO Turb (NTU) 2.33 1.9.7 2.43 2.45	bez	Remar	Ks 4/1/4 16:0 (6:0) (16:0)	)
Well No. Well Dlameter DE 2" (0.16 El 4" (0.65 Time 16 58 (7:00 17:04 17:04 17:04	yin ward of the second	$\frac{1}{2} = \frac{1}{2}$ $\frac{1}{2} = 5^{*} (1.02 \text{ gr})$ $\frac{1}{2} = 6^{*} (1.47 \text{ gr})$	Dep We al/feet) Wa al/feet) We Purged (gal) 1.0 2.0 3.25 4.25 5.5	oth of Water II Depth ter Column H II Volume Totalizer Reading	51 - 57 teight $57$ 0.9 Temperature (C°) 19.15 19.18 19.18 19.16	28 -09 M (SU) 7.01 6.87 6.88	Cond (umhos) 118/102 1207/1015 1214/1080 1218/1081	80% [ Do Turb (NTU) 2.33 1.9.7 2.43 2.43 2.45	bez	Remar	Ks <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>16</u> <u>1</u>	)
Well No. Well Dlameter	yn A (A gal/feet) ( gal/feet) ( inlet Depth S A	$\frac{1}{2} = \frac{1}{2}$ $\frac{1}{2} = 5^{*} (1.02 \text{ gr})$ $\frac{1}{2} = 6^{*} (1.47 \text{ gr})$	Dep We al/feet) Wa al/feet) We Purged (gal) 1.0 2.0 3.25 4.25 5.5 4.25	oth of Water	51 - 57 leight $57$ Temperature (C°) 19 - 15 19 - 15 19 - 16	28 .09 M (su) 7.01 6.87 6.88 6.87	Cond (umhos) 118/102 1207/1035 1219/1030 1218/1081	80% I DO 100 100 100 1.9.7 2.43 2.43 2.45	beg	G Remar V. 34 Tu Tu Tu Tu	ks 16:0 (6:0 (6:0) (6:0)	
Well No Well Dlameter ) 22" (0.16 El 4" (0.65 Time 16 58 (7:00) 17:04 17:04 17:04 17:05	<u>gal/feet)</u> gal/feet) Inlet Depth	D = 10 $\Box 5" (1.02 gr \Box 6" (1.47 gr Depth to Water M P S(,SS)$	Dep We al/feet) Wa al/feet) We Purged (gal) 1,0 2,0 3,25 4,25 5-5 4,25 5-5	oth of Water	51 - 57 leight $57$ Temperature (C°) 19 - 15 19 - 15 19 - 15 19 - 16	28 .09 M (su) 7.01 6.87 6.88 6.87	Cond (umhos) 118/102 1207/1075 1219/1075 1219/1081	80% I DO Inte (NTU) 2.33 1.9.7 2.43 2.43 2.45	DTW	G Remar VJ 34 Tu Tu Tu	ks 4/1/1/ 16:0 16:0 (6:0) (6:0)	
Well No Well Dlameter ) 22" (0.16 El 4" (0.65 Time [6 5 8 (7:00) 17:04 17:04 17:04 17:04 17:04	gal/feet) ( gal/feet) ( lnlet Depth	$\frac{1}{2} = \frac{1}{2}$ $\frac{1}{2} = \frac{5}{1.22}$ $\frac{1}{2} = \frac{6}{1.47}$ $\frac{1}{4} = \frac{1}{2}$ $\frac{1}{2} = \frac{1}{2}$ $\frac{1}{2} = \frac{1}{2}$ $\frac{1}{2} = \frac{1}{2}$	Dep We al/feet) Wa al/feet) We Purged (gal) 1.0 2.0 3.25 4.25 5-5 4.25 5-5	oth of Water	51 - 57 leight $57$ Temperature (C°) 19 - 15 19 - 15 19 - 15 19 - 16	28 -09 -09 -09 	Cond (umhos) 1207/1075 1214/1080 1218/1081	B0% I DO Inte (NTU) (2.33 1.9.7 2.43 2.43 2.45	DTW	Remar	ks 4/1/4 16:8 16:0 (6:0) (6:0)	
Well No. Well Dlameter \$\$2" (0.16 El 4" (0.65 Time 16 5 8 (7:00 17:04 17:04 17:04 17:06 17:11 17:20	gal/feet) ( gal/feet) ( lnlet Depth	$\frac{1}{2} = \frac{1}{2}$ $\frac{1}{2} = \frac{5}{1.02} \text{ gr}$ $\frac{1}{2} = \frac{6}{1.47} \text{ gr}$ $\frac{1}{1.47} \text{ gr}$ $\frac{1}$	$  \begin{array}{c} & \\ & \\ & \\ & \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	oth of Water	51 - 57 leight $57$ Temperature (C°) 19 - 15 19 - 15 19 - 15 19 - 16	28 09 M (su) 6.87 6.88 6.87	Cond (umhos) 1207/1075 1214/1080 1218/ 1081	B0% I DO Inte (NTU) 2.33 1.9.7 2.43 2.43 2.45	13 TW	Remar	KS 4/1/1/2 1/6:0 1/6:0 1/6:0 1/6:0	
Well No Well Dlameter ) 22" (0.16 El 4" (0.65 Time 16 58 (7:00) 17:04 17:04 17:04 17:04 17:04	gal/feet) f gal/feet) f Inlet Depth	D = 10 $\Box 5" (1.02 gr \Box 6" (1.47 gr Depth to Water M P 5(.55)$		oth of Water	51 - 57 leight $57$ Temperature (C°) 19 - 15 19 - 15 19 - 15 19 - 16	28 09 M (SU) 701 6.87 6.88 6.87	Cond (umhos) 1207/1075 1214/1080 1218/ 1081	B0% I DO Inter (NTU) (2.33 1.9.7 2.43 2.43 2.45	13 TW	Remar	Ks 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 16:0 10	

**APPENDIX D** 

Laboratory Certified Analytical Reports



	Total	Volatil	le Hydrocar	bons	
Lab #: 203	859		Location:	Hanson Radum	AOG#1
Client: LFR	& Levine Fricke		Prep:	EPA 5030B	
Project#: 001	-09567-07		Analysis:	EPA 8015B	
Matrix: Soi	.1		Batch#:	139150	
Units: mg/	Кg		Sampled:	06/10/08	
Basis: as	received		Received:	06/10/08	
Diln Fac: 1.0	000		Analyzed:	06/11/08	
Field ID: MW-9 Type: SAMF	9-27.5 PLE		Lab ID:	203859-001	
Analyte		Result		RL	
Gasoline C7-C12		28 Y		0.93	
Surrogate	%REC	Limits			
Trifluorotoluene (FI	ID) 108	66-139			
Bromofluorobenzene (	FID) 141	67-149			
Field ID: MW-9 Type: SAMF	9-33.5 PLE		Lab ID:	203859-002	
Analyte		Result		RL	
Gasoline C7-C12	NI	D		0.98	
Surrogate	%REC	Limits			
Trifluorotoluene (F1	.D) 104	66-139			
Bromofluorobenzene (	FID) 108	67-149			
Type: BLAN	IK		Lab ID:	QC446058	
Analyte		Result		RL	
Gasoline C7-C12	NI	D		0.20	
-	<b>•</b>				
Surrogate	%REC	Limits			
Trifluorotoluene (FI	.D) 94	66-139			
Bromolluorobenzene (	FID) 94	6/-149			

Y= Sample exhibits chromatographic pattern which does not resemble standard ND= Not Detected RL= Reporting Limit Page 1 of 1



	Total Volatile	e Hydrocarbons	
Lab #:	203859	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8015B
Туре:	LCS	Basis:	as received
Lab ID:	QC446059	Diln Fac:	1.000
Matrix:	Soil	Batch#:	139150
Units:	mg/Kg	Analyzed:	06/11/08

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.625	112	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	66-139
Bromofluorobenzene (FID)	99	67-149



	Total Volatil	e Hydrocarbons	
Lab #:	203859	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	203856-001	Batch#:	139150
Matrix:	Soil	Sampled:	06/10/08
Units:	mg/Kg	Received:	06/10/08
Basis:	as received	Analyzed:	06/11/08

Туре:	MS			Lab ID:	Q	C446060		
	Analyte	MSS Re	sult	Spike	ed	Result	%REC	Limits
Gasoline	C7-C12		0.1847	9.	434	8.522	88	45-120
	Surrogate	%REC	Limits					
Trifluor	otoluene (FID)	115	66-139					
Bromoflue	probenzene (FID)	102	67-149					
Туре:	MSD			Lab ID:	Q	C446061		
	Analyte		Spiked		Result	%REC	Limits	RPD Lim
Gasoline	C7-C12		9.61	5	8.98	6 92	45-120	3 24

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	115	66-139	
Bromofluorobenzene (FID)	103	67-149	







	Total	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	203859 LFR Levine Fricke 001-09567-07		Location: Prep: Analysis:	Hanson Radum AOG#1 EPA 3550B EPA 8015B
Matrix: Units: Basis: Batch#:	Soil mg/Kg as received 139179		Sampled: Received: Prepared:	06/10/08 06/10/08 06/12/08
Field ID: Type:_	MW-9-27.5 SAMPLE		Diln Fac: Analyzed:	5.000 06/14/08
Lab ID:	203859-001		Cleanup Method:	EPA 3630C
Anal Diesel C10-C24 Motor Oil C24-C	<b>yte</b> 36	<b>Result</b> 6,600 Y 4,700	<b>RL</b> 10 50	
Surro	gate %RE	C Limits		
Field ID: Type: Lab ID:	MW-9-33.5 SAMPLE 203859-002		Diln Fac: Analyzed: Cleanup Method:	1.000 06/14/08 EPA 3630C
Anal Diesel C10-C24 Motor Oil C24-C	<b>yte</b> 36	<b>Result</b> 67 Y 69		0
Surro Hexacosane	gate %RE( 76	<u>C I.imits</u> 48-128		
Type: Lab ID: Diln Fac:	BLANK QC446154 1.000		Analyzed: Cleanup Method:	06/16/08 EPA 3630C
Anal	vte	Result	RL	0
Diesel Clu-C24 Motor Oil C24-C	36		1. 5.	U N
Surro	gate %RE(	<u>C Limits</u>		



Total Extractable Hydrocarbons					
Lab #:	203859	Location:	Hanson Radum AOG#1		
Client:	LFR Levine Fricke	Prep:	EPA 3550B		
Project#:	001-09567-07	Analysis:	EPA 8015B		
Туре:	LCS	Diln Fac:	1.000		
Lab ID:	QC446155	Batch#:	139179		
Matrix:	Soil	Prepared:	06/12/08		
Units:	mg/Kg	Analyzed:	06/16/08		
Basis:	as received				

Cleanup Method: EPA 3630C

Hexacosane

	Analyte		Spiked	Result	%REC	Limits	
	Diesel C10-C24		49.52	41.00	83	54-126	
Γ	Surrogate	%REC	Limits				

48-128

102



		Total I	Extracta	ble Hydrocarbo	ns		
Lab #:	203859			Location:	Hanson Radum	AOG#1	
Client:	LFR Levine F	ricke		Prep:	EPA 3550B		
Project#:	001-09567-07			Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZ			Batch#:	139179		
MSS Lab ID:	203895-001			Sampled:	06/11/08		
Matrix:	Soil			Received:	06/11/08		
Units:	mg/Kg			Prepared:	06/12/08		
Basis:	as received			Analyzed:	06/16/08		
Diln Fac:	1.000						
Type: Lab ID: Ana	MS QC446156 <b>lyte</b>	MSS Res	sult	Cleanup Method: Spiked	EPA 3630C Result	%REC	Limits
Diesel C10-C	24	53	3.74	49.69	83.23	59	34-144
Su	rrogate	%REC	Limits				
Hexacosane		106	48-128				
Type: Lab ID:	MSD QC446157			Cleanup Method:	EPA 3630C		
A	nalyte		Spiked	Result	%REC	Limits	RPD Lim
Diesel C10-C	24		49.82	70.	88 34	34-144	16 47

Surrogate	%REC	Limits
Hexacosane	99	48-128



-\\Lims\gdrive\ezchrom\Projects\GC15B\Data\162b171, B



-\\Lims\gdrive\ezchrom\Projects\GC15B\Data\162b167, B



-\\Lims\gdrive\ezchrom\Projects\GC15B\Data\162b160, B



-\\Lims\gdrive\ezchrom\Projects\GC15B\Data\162b161, B



#### BTXE & Oxygenates Lab #: Hanson Radum AOG#1 203859 Location: Client: LFR Levine Fricke Prep: EPA 5030B Project#: 001-09567-07 Analysis: EPA 8260B MW-9-27.5 Field ID: Diln Fac: 250.0 Lab ID: 203859-001 Batch#: 139147 Matrix: Soil Sampled: 06/10/08 Units: ug/Kg Received: 06/10/08 Basis: Analyzed: as received 06/11/08

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	25,000	
MTBE	ND	1,300	
Isopropyl Ether (DIPE)	ND	1,300	
Ethyl tert-Butyl Ether (ETBE)	ND	1,300	
1,2-Dichloroethane	ND	1,300	
Benzene	ND	1,300	
Methyl tert-Amyl Ether (TAME)	ND	1,300	
Toluene	ND	1,300	
1,2-Dibromoethane	ND	1,300	
Ethylbenzene	ND	1,300	
m,p-Xylenes	ND	1,300	
o-Xylene	ND	1,300	

Surrogate	%REC	Limits
Dibromofluoromethane	111	78-126
1,2-Dichloroethane-d4	97	76-137
Toluene-d8	90	80-120
Bromofluorobenzene	94	80-121
Trifluorotoluene (MeOH)	118	52-145



## BTXE & Oxygenates

Lab #:	203859	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Field ID:	MW-9-33.5	Diln Fac:	0.9690
Lab ID:	203859-002	Batch#:	139228
Matrix:	Soil	Sampled:	06/10/08
Units:	ug/Kg	Received:	06/10/08
Basis:	as received	Analyzed:	06/13/08

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	97	
MTBE	ND	4.8	
Isopropyl Ether (DIPE)	ND	4.8	
Ethyl tert-Butyl Ether (ETBE)	ND	4.8	
1,2-Dichloroethane	ND	4.8	
Benzene	ND	4.8	
Methyl tert-Amyl Ether (TAME)	ND	4.8	
Toluene	ND	4.8	
1,2-Dibromoethane	ND	4.8	
Ethylbenzene	ND	4.8	
m,p-Xylenes	ND	4.8	
o-Xylene	ND	4.8	

Surrogate	%REC	Limits	
Dibromofluoromethane	90	78-126	
1,2-Dichloroethane-d4	105	76-137	
Toluene-d8	105	80-120	
Bromofluorobenzene	95	80-121	



BTXE & Oxygenates							
Lab #:	203859	Location:	Hanson Radum AOG#1				
Client:	LFR Levine Fricke	Prep:	EPA 5030B				
Project#:	001-09567-07	Analysis:	EPA 8260B				
Туре:	BLANK	Basis:	as received				
Lab ID:	QC446043	Diln Fac:	1.000				
Matrix:	Soil	Batch#:	139147				
Units:	ug/Kg	Analyzed:	06/11/08				

- • ·	- • ·		
Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	
Dibromofluoromethane	106	78-126	
1,2-Dichloroethane-d4	88	76-137	
Toluene-d8	91	80-120	
Bromofluorobenzene	104	80-121	



	В	TXE & Oxygenates	
Lab #:	203859	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	139147
Basis:	as received	Analyzed:	06/11/08

Type: BS			Lab ID:	QC44	16044	
Analyte		Spiked		Result	%REC	Limits
tert-Butyl Alcohol (TBA)		125.0		112.9 b	90	58-135
MTBE		25.00		22.08	88	66-120
Isopropyl Ether (DIPE)		25.00		23.87	95	62-120
Ethyl tert-Butyl Ether (ETBE)		25.00		21.63	87	65-121
1,2-Dichloroethane		25.00		24.39	98	70-126
Benzene		25.00		27.16	109	79-123
Methyl tert-Amyl Ether (TAME)		25.00		22.09	88	71-122
Toluene		25.00		25.04	100	80-123
1,2-Dibromoethane		25.00		24.63	99	77-121
Ethylbenzene		25.00		23.20	93	80-126
m,p-Xylenes		50.00		51.15	102	80-127
o-Xylene		25.00		23.24	93	80-123
Surrogate	%REC	Limits				
Dibromofluoromethane	110	78-126				
1,2-Dichloroethane-d4	95	76-137				
Toluene-d8	95	80-120				
Bromofluorobenzene	92	80-121				

Туре: И	BSD		Lab ID:	QC446	5045			
Analyt	ce	Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcoho	ol (TBA)	125.0		102.5 b	82	58-135	10	27
MTBE		25.00		22.88	92	66-120	4	20
Isopropyl Ether	(DIPE)	25.00		24.78	99	62-120	4	20
Ethyl tert-Butyl	Ether (ETBE)	25.00		22.15	89	65-121	2	20
1,2-Dichloroethar	ne	25.00		24.07	96	70-126	1	20
Benzene		25.00		27.05	108	79-123	0	20
Methyl tert-Amyl	Ether (TAME)	25.00		22.50	90	71-122	2	20
Toluene		25.00		25.59	102	80-123	2	20
1,2-Dibromoethane	2	25.00		24.76	99	77-121	0	20
Ethylbenzene		25.00		24.08	96	80-126	4	20
m,p-Xylenes		50.00		52.96	106	80-127	3	20
o-Xylene		25.00		24.37	97	80-123	5	20
Surroga	ate %REC	Limits						
Dibromofluorometh	nane 110	78-126						
1,2-Dichloroethar	ne-d4 92	76-137						
Toluene-d8	94	80-120						
Bromofluorobenzer	ne 91	80-121						

b= See narrative RPD= Relative Percent Difference Page 1 of 1



BTXE & Oxygenates							
Lab #:	203859	Location:	Hanson Radum AOG#1				
Client:	LFR Levine Fricke	Prep:	EPA 5030B				
Project#:	001-09567-07	Analysis:	EPA 8260B				
Туре:	LCS	Basis:	as received				
Lab ID:	QC446360	Diln Fac:	1.000				
Matrix:	Soil	Batch#:	139228				
Units:	ug/Kg	Analyzed:	06/13/08				

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	155.3	124	58-135
MTBE	25.00	28.32	113	66-120
Isopropyl Ether (DIPE)	25.00	25.69	103	62-120
Ethyl tert-Butyl Ether (ETBE)	25.00	26.95	108	65-121
1,2-Dichloroethane	25.00	24.77	99	70-126
Benzene	25.00	25.36	101	79-123
Methyl tert-Amyl Ether (TAME)	25.00	28.92	116	71-122
Toluene	25.00	25.35	101	80-123
1,2-Dibromoethane	25.00	27.29	109	77-121
Ethylbenzene	25.00	25.41	102	80-126
m,p-Xylenes	50.00	49.69	99	80-127
o-Xylene	25.00	25.70	103	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	92	78-126
1,2-Dichloroethane-d4	94	76-137
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-121



BTXE & Oxygenates							
Lab #:	203859	Location:	Hanson Radum AOG#1				
Client:	LFR Levine Fricke	Prep:	EPA 5030B				
Project#:	001-09567-07	Analysis:	EPA 8260B				
Туре:	BLANK	Basis:	as received				
Lab ID:	QC446361	Diln Fac:	1.000				
Matrix:	Soil	Batch#:	139228				
Units:	ug/Kg	Analyzed:	06/13/08				

Analyte	Result	RL	
tert-Butyl Alcohol (TBA)	ND	100	
MTBE	ND	5.0	
Isopropyl Ether (DIPE)	ND	5.0	
Ethyl tert-Butyl Ether (ETBE)	ND	5.0	
1,2-Dichloroethane	ND	5.0	
Benzene	ND	5.0	
Methyl tert-Amyl Ether (TAME)	ND	5.0	
Toluene	ND	5.0	
1,2-Dibromoethane	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits
Dibromofluoromethane	87	78-126
1,2-Dichloroethane-d4	98	76-137
Toluene-d8	103	80-120
Bromofluorobenzene	95	80-121



BTXE & Oxygenates								
Lab #:	203859	Location:	Hanson Radum AOG#1					
Client:	LFR Levine Fricke	Prep:	EPA 5030B					
Project#:	001-09567-07	Analysis:	EPA 8260B					
Field ID:	MW-9-33.5	Diln Fac:	0.9690					
MSS Lab ID:	203859-002	Batch#:	139228					
Matrix:	Soil	Sampled:	06/10/08					
Units:	ug/Kg	Received:	06/10/08					
Basis:	as received	Analyzed:	06/13/08					

Type: MS		Lab ID:		QC446486		
Analyte	MSS	Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)		<7.174	242.2	231.7	96	43-126
MTBE		<0.5884	48.45	48.63	100	51-120
Isopropyl Ether (DIPE)		<0.5489	48.45	44.21	91	48-120
Ethyl tert-Butyl Ether (ETB	E )	<0.5943	48.45	46.74	96	51-121
1,2-Dichloroethane		<0.8057	48.45	44.89	93	51-120
Benzene		<0.6866	48.45	45.96	95	55-120
Methyl tert-Amyl Ether (TAM	E )	<0.6809	48.45	49.13	101	55-120
Toluene		<0.5064	48.45	46.35	96	52-121
1,2-Dibromoethane		<0.6798	48.45	47.19	97	49-120
Ethylbenzene		<0.6522	48.45	44.58	92	50-123
m,p-Xylenes		<1.191	96.90	86.12	89	47-122
o-Xylene		<0.4972	48.45	44.62	92	48-120
Surrogate	%REC	Limits				
Dibromofluoromethane	92	78-126				
1,2-Dichloroethane-d4	92	76-137				
Toluene-d8	99	80-120				
Bromofluorobenzene	97	80-121				

Type: MSD			Lab ID:	QC4	46487			
Analyte		Spiked		Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)		242.2		221.9	92	43-126	4	39
MTBE		48.45		47.94	99	51-120	1	29
Isopropyl Ether (DIPE)		48.45		44.22	91	48-120	0	30
Ethyl tert-Butyl Ether (ETBE)		48.45		45.89	95	51-121	2	30
1,2-Dichloroethane		48.45		44.71	92	51-120	0	28
Benzene		48.45		45.36	94	55-120	1	26
Methyl tert-Amyl Ether (TAME)		48.45		48.76	101	55-120	1	29
Toluene		48.45		46.10	95	52-121	1	29
1,2-Dibromoethane		48.45		46.13	95	49-120	2	30
Ethylbenzene		48.45		43.75	90	50-123	2	30
m,p-Xylenes		96.90		83.97	87	47-122	3	30
o-Xylene		48.45		44.00	91	48-120	1	30
	0550							
Surrogate	%REC	Limits						
Dibromofluoromethane	93	78-126						
1,2-Dichloroethane-d4	93	76-137						
Toluene-d8	99	80-120						
Bromofluorobenzene	97	80-121						



		CI	HAIN (	OF C	CUST	ODY	/ AN	ALYS	ES RE	EQUI	EST	FOF	RM					,	
	Street, 12th	Floor	PROJ	-09	): 1567-0	>7 <sup>s</sup>		NO.: ≰ ¥→	14		10	188	SA		PL	NLS:	SERI	AL NO.: 201	975
EVINE FRICKE (510) 652-450	alitornia 94 10 Fax: (51	608-1827 0) 652-2246	PROJ	LAN		Ron	UM I	Aoc#			T		In	L		~			010
	<u> </u>	SAN	IPLE	<u> </u>					· · · ·	$\mathcal{O}$	Ύ́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́	NALY	SER 3	g,					EMARKS
	DATE	TIME	b Sample	e No.	ntainers	т Т	YPE	no the test	antamin and	EPA 8280F	EPA BOTOM	A Col	(13) + 99 + 99		Jard SH:			*VOCs: 260 List 240 List 010 List	**Metals:
			Var K	×°′ 69	. Ns.	$\angle$		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u> </u>	Me /	<u>) ~ ~</u>	Ŋ /	~	- Star	<u> </u>	2	6 []	24 List	
MW - 9 - 27.5 MW - 9 - 33.5	6/19/8	10:05		X		X X	X X			X	X	X		Ž					
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PLE RECEIPT: Cooler Temp: ntact Cold		DE SHIRMENT:				puz	L 6,	10/00	RELINQUI	SHED BY	/: 				2 RELI	NQUISHEI	D BY:		
On Ice Ambient Cooler No:	LAB REPO	RT NO.:	(SIGN	ARM	Did	e A	(date ADR	1431	SIGNATUR	RE)			(DATE)		(SIGI	IATURE)		(	DATE)
servative Correct?	FAX COC 0		): (PRIN	LH	ME) ZTN	· •/	(TIME)		PRINTED	NAME)			(TIME)		(PRIN	ITED NAM	IE)	(	TIMÉ)
/es		<u> </u>	(COMI	PANY)	$A^{+1}$		>	1-1-1	COMPAN	()					(CON	PANY)			
		LTS TO: <u> <u> <u> </u> <u> </u></u></u>	WE	IVED BY	F	4	(DATE	10/08	SIGNATU	8 <b>Y</b> : RE)			(DATE)		2 RECI	IVED BY	(LABORAT	(URY):	DATE)
CAN	SEND EDD	TO: DDS.COM	(PRIN		FVh T	-5	(TIME)	51	PRINTED	NAME)			(TIME)		(PRI	ITED NAM	IE)	(	TIME)
· · · ·	1		(COM	PANY)		<u></u>			COMPAN	()					(CON	PANY)			

COOLER RECEIPT CHE	ECKLIST			ompkins, Ltd.
Login # 203859 Client <u>LFYL</u>	Date Received Pro	bject NLPSON	Number of coolers	GH=1
Date Opened <u>6/10/08</u> Date Logged in <u>1</u>	By (print) M.VIUU By (print) V	WiteVe(sign) (sign)	Mel he	ly
1. Did cooler come with a s Shipping info	hipping slip (airbill, e	tc)?		YES 🔊
<ul> <li>2A. Were custody seals present the many</li> <li>2B. Were custody seals intaged and the seals intaged and the seals of the seals o</li></ul>	sent?   YES (c	ved? igned, etc)? (If so fill out top be)	on samples DateYES Yes  of form)	NO KA NO NO NO NO NO NO NO
🗌 Bubble Ŵrap	🗌 Foam blocks	🗌 Bags	None	
☐ Cloth material 7. If required, was sufficien	☐ Cardboard t ice used? Samples s		□ Paper tov CYES	vels NO N/A
Type of ice used:	] Wet [] Blue	□ None	Temp(°C)	
Samples Receive	d on ice & cold with	out a temperature b	lank	
□ Samples received	d on ice directly from	the field. Cooling	process had begun	
8. Were Method 5035 sam If YES, what time v	pling containers prese vere they transferred t	nt? o freezer?		YES NO
10. Are samples in the app 11. Are sample labels prese	ropriate containers for ent, in good condition	r indicated tests? and complete?		MES NO MES NO
12. Do the sample labels ag	gree with custody pape	ers? s requested?		XES NO
14. Are the samples approp	oriately preserved?		YES	NORTA
15. Are bubbles > 6mm abs	sent in VOA samples?	) 	YES	NO MA
16. Was the client contacte If YES, Who was ca	d concerning this sam alled?	By	Date:	. 1E5 NO
COMMENTS				
				<u></u>
SOP Volume: Client Service Section: 1.1.2	S		Rev. 5 Effective	Number 1 of 3 :: 19 May 2008

 Section:
 1.1.2
 Effective: 19 May 2008

 Page:
 1 of 1C:\Documents and Settings\carol\Local Settings\Temporary Internet Files\Content.IE5\Q6BXTRDB\Coolc



		Total H	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	204017 LFR Levine F 001-09567-07	ricke		Location: Prep: Analysis:	Hanson Radum AOG#1 EPA 3520C EPA 8015B
Matrix: Units: Diln Fac: Batch#:	Water ug/L 1.000 139370			Sampled: Received: Prepared:	06/16/08 06/16/08 06/17/08
Field ID:	MW-1			Analyzed:	06/19/08
Type: Lab ID:	204017-001			Cleanup Method:	EPA 3630C
Ana	.yte	NID	Result	RL	
Motor Oil C24-	136			50 300	
100001 011 021 0		- HB		500	
Surro	ogate	%REC	Limits		
Hexacosane		111	63-130		
Field TD:	MW-2			Analvzed:	06/19/08
Type: Lab ID:	SAMPLE 204017-002			Cleanup Method:	EPA 3630C
Anal	.yte	115	Result	RL	
Diesel Clu-C24 Motor Oil C24-(	136	ND ND		50	
MOCOL OIL CZI (	.50	IND.		500	
Surro	ogate	%REC	Limits		
Hexacosane		93	63-130		
Field ID: Type: Lab ID:	MW-3 SAMPLE 204017-003			Analyzed: Cleanup Method:	06/20/08 EPA 3630C
1			D	D.1	
Ana Diesel C10-C24	yle	ND	Result	50	
Motor Oil C24-0	236	ND		300	
Guirren		%DEC	Timita		
Hexacosane	gate	93	<u>63-130</u>		
nonacopano		20	00 100		
	_				
Field ID: Type: Lab ID:	MW-5 SAMPLE 204017-004			Analyzed: Cleanup Method:	06/20/08 EPA 3630C
Field ID: Type: Lab ID: Anal	MW-5 SAMPLE 204017-004 . <b>yte</b>		Result	Analyzed: Cleanup Method: <b>RL</b>	06/20/08 EPA 3630C
Field ID: Type: Lab ID: <b>Ana</b> Diesel C10-C24	MW-5 SAMPLE 204017-004 .yte	ND	Result	Analyzed: Cleanup Method: <u>RL</u>	06/20/08 EPA 3630C
Field ID: Type: Lab ID: <b>Ana</b> Diesel C10-C24 Motor Oil C24-C	MW-5 SAMPLE 204017-004 .yte	ND ND	Result	Analyzed: Cleanup Method: RL 50 300	06/20/08 EPA 3630C
Field ID: Type: Lab ID: Diesel C10-C24 Motor Oil C24-C Surro	MW-5 SAMPLE 204017-004 .yte 236	ND ND <b>%REC</b>	Result	Analyzed: Cleanup Method: RL 50 300	06/20/08 EPA 3630C



		Total H	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	204017 LFR Levine F 001-09567-07	ricke		Location: Prep: Analysis:	Hanson Radum AOG#1 EPA 3520C EPA 8015B
Matrix: Units: Diln Fac: Batch#:	Water ug/L 1.000 139370			Sampled: Received: Prepared:	06/16/08 06/16/08 06/17/08
Field ID: Type: Lab ID:	MW-5D SAMPLE 204017-005			Analyzed: Cleanup Method:	06/20/08 EPA 3630C
			<b>D 1</b>		
Diesel C10-C	Analyte 224	NE	Result	<u></u>	
Motor Oil C2	24-C36	NE	)	300	
Su	irrogate	%REC	Limits		
Hexacosane		90	63-130		
Field ID: Type: Lab ID:	MW-6 SAMPLE 204017-006			Analyzed: Cleanup Method:	06/20/08 EPA 3630C
Diesel Cl0-C	Analyte	NI	Result	<b>RL</b>	
Motor Oil C2	24-C36	NE	)	300	
C1	irrogate	<u>%</u> ₽₽ሮ	T.imita		
Hexacosane	arrogate	81	63-130		
Field ID: Type: Lab ID:	MW-7 SAMPLE 204017-007			Analyzed: Cleanup Method:	06/20/08 EPA 3630C
Diogol Cl0-C	Analyte	NIT	Result	<b>RL</b>	
Motor Oil C2	24-C36	NL	)	300	
C1	irrogato	%DEC	Timita		
Hexacosane	lilogale	105	63-130		
Field ID: Type: Lab ID:	MW-8 SAMPLE 204017-008			Analyzed: Cleanup Method:	06/20/08 EPA 3630C
Diesel C10-C	Analyte	NIT	Result	RL	
Motor Oil C2	24-C36	NL NE	)	300	
C1	irrogate	%DEC	Limita		
Hexacosane	arroyate	110	63-130		



		Total H	Extracta	ble Hydrocarbo	ns
Lab #: Client: Project#:	204017 LFR Levine F 001-09567-07	ricke		Location: Prep: Analysis:	Hanson Radum AOG#1 EPA 3520C EPA 8015B
Matrix: Units: Diln Fac: Batch#:	Water ug/L 1.000 139370			Sampled: Received: Prepared:	06/16/08 06/16/08 06/17/08
Field ID: Type: Lab ID:	MW-9 SAMPLE 204017-009			Analyzed: Cleanup Method:	06/20/08 EPA 3630C
	Analyte	110	Result	RL	
Diesel Clu- Motor Oil C	C24 24-C36	ND ND		50 300	
10001 011 0	21 000	ЦĐ		500	
S Nova do da no	urrogate	%REC	Limits		
Field ID: Type: Lab ID:	MW-10 SAMPLE 204017-010			Analyzed: Cleanup Method:	06/20/08 EPA 3630C
	Analyte		Result	RL	
Motor Oil C	C24 24-C36	ND ND		50 300	
HOUGH OIL O		112			
S Hevacosane	urrogate	%REC	Limits 63-130		
	RI.ANK		<u> </u>	Analyzed:	06/19/08
Lab ID:	QC446940			Cleanup Method:	EPA 3630C
	Analyte		Result	RL	
Diesel C10-	C24	ND		50	
Motor Uil C	24-036	ND		300	
S	urrogate	%REC	Limits		
Hexacosane		97	63-130		



Total Extractable Hydrocarbons					
Lab #:	204017	Location:	Hanson Radum AOG#1		
Client:	LFR Levine Fricke	Prep:	EPA 3520C		
Project#:	001-09567-07	Analysis:	EPA 8015B		
Туре:	LCS	Diln Fac:	1.000		
Lab ID:	QC446941	Batch#:	139370		
Matrix:	Water	Prepared:	06/17/08		
Units:	ug/L	Analyzed:	06/19/08		

Cleanup Method: EPA 3630C

Analyte		Spiked	Result	%REC	Limits
Diesel C10-C24		2,500	2,151	86	61-120
Surrogate	%REC	Limits			
Hexacosane	102	63-130			



Total Extractable Hydrocarbons					
Lab #:	204017	Location:	Hanson Radum AOG#1		
Client:	LFR Levine Fricke	Prep:	EPA 3520C		
Project#:	001-09567-07	Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZ	Batch#:	139370		
MSS Lab ID:	203988-002	Sampled:	06/13/08		
Matrix:	Water	Received:	06/13/08		
Units:	ug/L	Prepared:	06/17/08		
Diln Fac:	1.000	Analyzed:	06/19/08		

Type: MS	5	Lab	ID:	QC446942		
Analyte	MSS Res	ult	Spiked	Result	%REC	Limits
Diesel C10-C24	40	.69	2,500	1,877	73	58-126
Surrogat	e %REC	Limits				
Hexacosane	104	63-130				

Type:	MSD			Lab ID:		QC446943			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Diesel C1	10-C24		2,500		1,953	76	58-126	4	31
	Surrogate	%REC	Limits						
Hexacosar	ne	109	63-130						



	Gasoline	by GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Field ID:	MW-1	Batch#:	139327
Lab ID:	204017-001	Sampled:	06/16/08
Matrix:	Water	Received:	06/16/08
Units:	ug/L	Analyzed:	06/17/08
Diln Fac:	1.000		

Analyte	Result	RL	
Gasoline C7-C12	ND	50	
tert-Butyl Alcohol (TBA)	ND	10	
Isopropyl Ether (DIPE)	ND	0.50	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	
Methyl tert-Amyl Ether (TAME)	ND	0.50	
MTBE	ND	0.50	
1,2-Dichloroethane	ND	0.50	
Benzene	ND	0.50	
Toluene	ND	0.50	
1,2-Dibromoethane	ND	0.50	
Ethylbenzene	ND	0.50	
m,p-Xylenes	ND	0.50	
o-Xylene	ND	0.50	

Surrogate	%REC	Limits
Dibromofluoromethane	86	80-123
1,2-Dichloroethane-d4	94	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	94	80-120



Gasoline by GC/MS					
Lab #:	204017	Location:	Hanson Radum AOG#1		
Client:	LFR Levine Fricke	Prep:	EPA 5030B		
Project#:	001-09567-07	Analysis:	EPA 8260B		
Field ID:	MW-2	Batch#:	139327		
Lab ID:	204017-002	Sampled:	06/16/08		
Matrix:	Water	Received:	06/16/08		
Units:	ug/L	Analyzed:	06/17/08		
Diln Fac:	1.000				

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	87	80-123
1,2-Dichloroethane-d4	96	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	96	80-120



	Gasoline	by GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Field ID:	MW-3	Batch#:	139327
Lab ID:	204017-003	Sampled:	06/16/08
Matrix:	Water	Received:	06/16/08
Units:	ug/L	Analyzed:	06/17/08
Diln Fac:	1.000		

50	
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0.50	
0.50	
0.50	
	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50

Surrogate	%REC	Limits
Dibromofluoromethane	88	80-123
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-120



	Gasoline	by GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Field ID:	MW-5	Batch#:	139327
Lab ID:	204017-004	Sampled:	06/16/08
Matrix:	Water	Received:	06/16/08
Units:	ug/L	Analyzed:	06/17/08
Diln Fac:	1.000		

Analyte	Result	RL	
Gasoline C7-C12	ND	50	
tert-Butyl Alcohol (TBA)	ND	10	
Isopropyl Ether (DIPE)	ND	0.50	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	
Methyl tert-Amyl Ether (TAME)	ND	0.50	
MTBE	ND	0.50	
1,2-Dichloroethane	ND	0.50	
Benzene	ND	0.50	
Toluene	ND	0.50	
1,2-Dibromoethane	ND	0.50	
Ethylbenzene	ND	0.50	
m,p-Xylenes	ND	0.50	
o-Xylene	ND	0.50	

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-123
1,2-Dichloroethane-d4	102	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	98	80-120



	Gasoline	by GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Field ID:	MW-5D	Batch#:	139327
Lab ID:	204017-005	Sampled:	06/16/08
Matrix:	Water	Received:	06/16/08
Units:	ug/L	Analyzed:	06/17/08
Diln Fac:	1.000		

Analyte	Result	RL	
Gasoline C7-C12	ND	50	
tert-Butyl Alcohol (TBA)	ND	10	
Isopropyl Ether (DIPE)	ND	0.50	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	
Methyl tert-Amyl Ether (TAME)	ND	0.50	
MTBE	ND	0.50	
1,2-Dichloroethane	ND	0.50	
Benzene	ND	0.50	
Toluene	ND	0.50	
1,2-Dibromoethane	ND	0.50	
Ethylbenzene	ND	0.50	
m,p-Xylenes	ND	0.50	
o-Xylene	ND	0.50	

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-123
1,2-Dichloroethane-d4	108	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	100	80-120



	Gasoline	by GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Field ID:	MW-6	Batch#:	139327
Lab ID:	204017-006	Sampled:	06/16/08
Matrix:	Water	Received:	06/16/08
Units:	ug/L	Analyzed:	06/17/08
Diln Fac:	1.000		

Analyte	Result	RL	
Gasoline C7-C12	ND	50	
tert-Butyl Alcohol (TBA)	ND	10	
Isopropyl Ether (DIPE)	ND	0.50	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	
Methyl tert-Amyl Ether (TAME)	ND	0.50	
MTBE	ND	0.50	
1,2-Dichloroethane	ND	0.50	
Benzene	ND	0.50	
Toluene	ND	0.50	
1,2-Dibromoethane	ND	0.50	
Ethylbenzene	ND	0.50	
m,p-Xylenes	ND	0.50	
o-Xylene	ND	0.50	

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-123
1,2-Dichloroethane-d4	114	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	102	80-120



Gasoline by GC/MS					
Lab #:	204017	Location:	Hanson Radum AOG#1		
Client:	LFR Levine Fricke	Prep:	EPA 5030B		
Project#:	001-09567-07	Analysis:	EPA 8260B		
Field ID:	MW-7	Batch#:	139428		
Lab ID:	204017-007	Sampled:	06/16/08		
Matrix:	Water	Received:	06/16/08		
Units:	ug/L	Analyzed:	06/19/08		
Diln Fac:	1.000				

Analyte	Result	RL	
Gasoline C7-C12	ND	50	
tert-Butyl Alcohol (TBA)	ND	10	
Isopropyl Ether (DIPE)	ND	0.50	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	
Methyl tert-Amyl Ether (TAME)	ND	0.50	
MTBE	ND	0.50	
1,2-Dichloroethane	ND	0.50	
Benzene	ND	0.50	
Toluene	ND	0.50	
1,2-Dibromoethane	ND	0.50	
Ethylbenzene	ND	0.50	
m,p-Xylenes	ND	0.50	
o-Xylene	ND	0.50	
o-Xylene	ND	0.50	

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-123
1,2-Dichloroethane-d4	122	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	112	80-120


	Gasoline	by GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Field ID:	MW-8	Batch#:	139428
Lab ID:	204017-008	Sampled:	06/16/08
Matrix:	Water	Received:	06/16/08
Units:	ug/L	Analyzed:	06/19/08
Diln Fac:	1.000		

Analyte	Result	RL	
Gasoline C7-C12	ND	50	
tert-Butyl Alcohol (TBA)	ND	10	
Isopropyl Ether (DIPE)	ND	0.50	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	
Methyl tert-Amyl Ether (TAME)	ND	0.50	
MTBE	ND	0.50	
1,2-Dichloroethane	ND	0.50	
Benzene	ND	0.50	
Toluene	ND	0.50	
1,2-Dibromoethane	ND	0.50	
Ethylbenzene	ND	0.50	
m,p-Xylenes	ND	0.50	
o-Xylene	ND	0.50	

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-123
1,2-Dichloroethane-d4	126	76-138
Toluene-d8	101	80-120
Bromofluorobenzene	113	80-120



	Gasoline	by GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Field ID:	MW-9	Batch#:	139428
Lab ID:	204017-009	Sampled:	06/16/08
Matrix:	Water	Received:	06/16/08
Units:	ug/L	Analyzed:	06/19/08
Diln Fac:	1.000		

Analyte	Result	RL	
Gasoline C7-C12	ND	50	
tert-Butyl Alcohol (TBA)	ND	10	
Isopropyl Ether (DIPE)	ND	0.50	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	
Methyl tert-Amyl Ether (TAME)	ND	0.50	
MTBE	ND	0.50	
1,2-Dichloroethane	ND	0.50	
Benzene	ND	0.50	
Toluene	ND	0.50	
1,2-Dibromoethane	ND	0.50	
Ethylbenzene	ND	0.50	
m,p-Xylenes	ND	0.50	
o-Xylene	ND	0.50	

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-123
1,2-Dichloroethane-d4	126	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	115	80-120



	Gasoline	by GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Field ID:	MW-10	Batch#:	139428
Lab ID:	204017-010	Sampled:	06/16/08
Matrix:	Water	Received:	06/16/08
Units:	ug/L	Analyzed:	06/19/08
Diln Fac:	1.000		

Analyte	Result	RL	
Gasoline C7-C12	ND	50	
tert-Butyl Alcohol (TBA)	ND	10	
Isopropyl Ether (DIPE)	ND	0.50	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	
Methyl tert-Amyl Ether (TAME)	ND	0.50	
MTBE	ND	0.50	
1,2-Dichloroethane	ND	0.50	
Benzene	ND	0.50	
Toluene	ND	0.50	
1,2-Dibromoethane	ND	0.50	
Ethylbenzene	ND	0.50	
m,p-Xylenes	ND	0.50	
o-Xylene	ND	0.50	

Surrogate	%REC	Limits	
Dibromofluoromethane	107	80-123	
1,2-Dichloroethane-d4	132	76-138	
Toluene-d8	100	80-120	
Bromofluorobenzene	113	80-120	



Gasoline by GC/MS			
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Туре:	LCS	Diln Fac:	1.000
Lab ID:	QC446755	Batch#:	139327
Matrix:	Water	Analyzed:	06/17/08
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	102.1	82	55-158
Isopropyl Ether (DIPE)	25.00	17.74	71	63-122
Ethyl tert-Butyl Ether (ETBE)	25.00	21.00	84	62-133
Methyl tert-Amyl Ether (TAME)	25.00	23.60	94	69-137
MTBE	25.00	21.87	87	60-136
1,2-Dichloroethane	25.00	30.52	122	77-125
Benzene	25.00	21.99	88	80-120
Toluene	25.00	22.94	92	80-121
1,2-Dibromoethane	25.00	23.97	96	80-120
Ethylbenzene	25.00	25.41	102	80-124
m,p-Xylenes	50.00	48.80	98	80-128
o-Xylene	25.00	24.40	98	80-123

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-123
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-120



	Gasoline	by GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Туре:	BLANK	Diln Fac:	1.000
Lab ID:	QC446756	Batch#:	139327
Matrix:	Water	Analyzed:	06/17/08
Units:	ug/L		

Analyte	Result	RL	
Gasoline C7-C12	ND	50	
tert-Butyl Alcohol (TBA)	ND	10	
Isopropyl Ether (DIPE)	ND	0.50	
Ethyl tert-Butyl Ether (ETBE)	ND	0.50	
Methyl tert-Amyl Ether (TAME)	ND	0.50	
MTBE	ND	0.50	
1,2-Dichloroethane	ND	0.50	
Benzene	ND	0.50	
Toluene	ND	0.50	
1,2-Dibromoethane	ND	0.50	
Ethylbenzene	ND	0.50	
m,p-Xylenes	ND	0.50	
o-Xylene	ND	0.50	

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-123
1,2-Dichloroethane-d4	101	76-138
Toluene-d8	95	80-120
Bromofluorobenzene	100	80-120



Gasoline by GC/MS						
Lab #:	204017	Location:	Hanson Radum AOG#1			
Client:	LFR Levine Fricke	Prep:	EPA 5030B			
Project#:	001-09567-07	Analysis:	EPA 8260B			
Matrix:	Water	Batch#:	139327			
Units:	ug/L	Analyzed:	06/17/08			
Diln Fac:	1.000					

Type:

BS

Lab ID:

QC446806

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,009	101	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-123
1,2-Dichloroethane-d4	103	76-138
Toluene-d8	97	80-120
Bromofluorobenzene	98	80-120

Type:	BSD			Lab ID:	QC	446807			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline	C7-C12		1,000		929.1	93	80-120	8	20
	Surrogate	%REC	Limits						
Dibromofl	luoromethane	89	80-123						
1,2-Dich]	loroethane-d4	99	76-138						
Toluene-c	18	96	80-120						
Bromofluc	orobenzene	96	80-120						



Gasoline by GC/MS					
Lab #: Client: Project#:	204017 LFR Levine Fricke 001-09567-07	Location: Prep: Analysis:	Hanson Radum AOG#1 EPA 5030B EPA 8260B		
Field ID: MSS Lab ID: Matrix: Units: Diln Fac:	ZZZZZZZZZ 203902-003 Water ug/L 1.000	Batch#: Sampled: Received: Analyzed:	139327 06/11/08 06/11/08 06/17/08		

Type: MS			Lab ID	):	QC	446851		
Analyte	MSS	Result	S	piked		Result	%RE	C Limits
tert-Butyl Alcohol (TBA)		<2.000		125.0		119.4	96	66-153
Isopropyl Ether (DIPE)		<0.1000		25.00		16.47	66 *	72-124
Ethyl tert-Butyl Ether (ETBE)		<0.1000		25.00		19.98	80	72-131
Methyl tert-Amyl Ether (TAME)		<0.1000		25.00		23.82	95	76-128
MTBE		<0.1000		25.00		22.04	88	72-129
1,2-Dichloroethane		<0.1000		25.00		32.91	132	* 80-129
Benzene		0.7856		25.00		21.36	82	80-122
Toluene		1.473		25.00		22.55	84	80-120
1,2-Dibromoethane		<0.1000		25.00		23.71	95	80-120
Ethylbenzene		0.2235		25.00		24.77	98	80-123
m,p-Xylenes		0.6283		50.00		45.73	90	80-126
o-Xylene		0.2794		25.00		23.25	92	80-122
Surrogate	%REC	Limits						
Dibromofluoromethane	96	80-123						
1,2-Dichloroethane-d4	121	76-138						
Toluene-d8	99	80-120						
Bromofluorobenzene	100	80-120						

Type: MSD	Lab ID:	QC446	852			
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	118.9	95	66-153	0	23
Isopropyl Ether (DIPE)	25.00	16.78	67 *	72-124	2	20
Ethyl tert-Butyl Ether (ETBE)	25.00	20.71	83	72-131	4	20
Methyl tert-Amyl Ether (TAME)	25.00	24.01	96	76-128	1	20
MTBE	25.00	21.69	87	72-129	2	20
1,2-Dichloroethane	25.00	33.41	134 *	80-129	1	20
Benzene	25.00	22.05	85	80-122	3	20
Toluene	25.00	23.31	87	80-120	3	20
1,2-Dibromoethane	25.00	24.25	97	80-120	2	20
Ethylbenzene	25.00	25.08	99	80-123	1	20
m,p-Xylenes	50.00	47.89	95	80-126	5	20
o-Xylene	25.00	24.17	96	80-122	4	20
diama and a						
Surrogate	SKEC LIMITS					
Dibromotluoromethane	92 80-123					

Surrogate	%REC	LIMITS	
Dibromofluoromethane	92	80-123	
1,2-Dichloroethane-d4	119	76-138	
Toluene-d8	97	80-120	
Bromofluorobenzene	101	80-120	

\*= Value outside of QC limits; see narrative RPD= Relative Percent Difference Page 1 of 1



	Gasoline	by GC/MS	
Lab #: Client: Project#:	204017 LFR Levine Fricke 001-09567-07	Location: Prep: Analysis:	Hanson Radum AOG#1 EPA 5030B EPA 8260B
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Analyzed:	139428 06/19/08

Type: BS			Lab ID:	Q	C447177			
Analyte		Spiked		Result	%]	REC	Limits	
tert-Butyl Alcohol (TBA)		125.0		144.7	11	6	55-158	
Isopropyl Ether (DIPE)		25.00		22.71	91		63-122	
Ethyl tert-Butyl Ether (ETBE)		25.00		25.26	10	1	62-133	
Methyl tert-Amyl Ether (TAME)		25.00		25.51	10	2	69-137	
MTBE		25.00		25.78	10	3	60-136	
1,2-Dichloroethane		25.00		29.54	11	8	77-125	
Benzene		25.00		23.11	92		80-120	
Toluene		25.00		22.21	89		80-121	
1,2-Dibromoethane		25.00		22.66	91		80-120	
Ethylbenzene		25.00		25.55	10	2	80-124	
m,p-Xylenes		50.00		48.34	97		80-128	
o-Xylene		25.00		23.82	95		80-123	
Surrogate	%REC	Limits						
Dibromofluoromethane	101	80-123						
1,2-Dichloroethane-d4	105	76-138						
Toluene-d8	101	80-120						
Bromofluorobenzene	109	80-120						

Type: BSD	Lab 1	ID: QC447	178			
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	166.6	133	55-158	14	20
Isopropyl Ether (DIPE)	25.00	23.27	93	63-122	2	20
Ethyl tert-Butyl Ether (ETBE)	25.00	25.57	102	62-133	1	20
Methyl tert-Amyl Ether (TAME)	25.00	26.70	107	69-137	5	20
MTBE	25.00	26.65	107	60-136	3	20
1,2-Dichloroethane	25.00	30.53	122	77-125	3	20
Benzene	25.00	23.51	94	80-120	2	20
Toluene	25.00	23.16	93	80-121	4	20
1,2-Dibromoethane	25.00	23.66	95	80-120	4	20
Ethylbenzene	25.00	26.43	106	80-124	3	20
m,p-Xylenes	50.00	49.18	98	80-128	2	20
o-Xylene	25.00	24.82	99	80-123	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-123
1,2-Dichloroethane-d4	106	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	108	80-120



	Gasoline	by GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	139428
Units:	ug/L	Analyzed:	06/19/08
Diln Fac:	1.000		

Type:

Bromofluorobenzene

BS

Lab ID: QC447179

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,112	111	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-123
1,2-Dichloroethane-d4	108	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	108	80-120

Type:	BSD			Lab ID:		QC447180			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Gasoline (	C7-C12		1,000		1,084	108	80-120	2	20
	Surrogate	%REC	Limits						
Dibromoflu	loromethane	99	80-123						
1,2-Dichlo	proethane-d4	107	76-138						
Toluene-d8	3	101	80-120						

80-120

107



	Gasoline	by GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 5030B
Project#:	001-09567-07	Analysis:	EPA 8260B
Туре:	BLANK	Diln Fac:	1.000
Lab ID:	QC447181	Batch#:	139428
Matrix:	Water	Analyzed:	06/19/08
Units:	ug/L		

D	
D	50
D	10
D	0.50
	D D D D D D D D D D D D D D D D D

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-123
1,2-Dichloroethane-d4	112	76-138
Toluene-d8	99	80-120
Bromofluorobenzene	110	80-120



	Semi	volatile C	rganics by	GC/M	IS
Lab #:	204017		Location:		Hanson Radum AOG#1
Client:	LFR Levine Fricke		Prep:		EPA 3520C
Project#:	001-09567-07		Analysis:		EPA 8270C
Field ID:	MW-1		Batch#:		139353
Lab ID:	204017-001		Sampled		06/16/08
Matrix:	Water		Received:		06/16/08
Units:			Prepared:		06/17/08
DIIN Fac.	1.000		Analyzed.		06/19/08
Analy	<i>i</i> te	Result		RT.	
N-Nitrosodimethy	vlamine	ND		9.4	
Phenol		ND		9.4	1
bis(2-Chloroethy	vl)ether	ND		9.4	1
2-Chlorophenol		ND		9.4	1
1,3-Dichlorobenz	zene	ND		9.4	1
1,4-Dichlorobenz	zene	ND		9.4	ł
Benzyl alcohol		ND		9.4	ł
1,2-Dichlorobenz	zene	ND		9.4	1
2-Methylphenol		ND		9.4	
bis(2-Chloroisor	propyl) ether	ND		9.4	
4-Methylphenol		ND		9.4	
N-Nitroso-di-n-p	propylamine	ND		9.4	Ł
Hexachloroethane	2	ND		9.4	Ł
Nitrobenzene		ND		9.4	£
Isophorone		ND		9.4	Ł
2-NILPOPHENOI				19	1
2,4-Dimethylphen	101			9.4	t
big(2-Chloroothe	www.mothano			4/ Q/	1
2 4-Dichloropher		ND		9.4	1
1 2 4-Trichlorok	loi Denzene	ND		9 4	1
Naphthalene		ND		9 4	- 1
4-Chloroaniline		ND		9.4	-
Hexachlorobutadi	ene	ND		9.4	
4-Chloro-3-methy	vlphenol	ND		9.4	1
2-Methylnaphthal	lene	ND		9.4	1
Hexachlorocyclor	pentadiene	ND		19	
2.4.6 mmighlemore	honol	NTD		0 /	1

Analyte	Result	RL
N-Nitrosodimethylamine	ND	9.4
Phenol	ND	9.4
his(2-Chloroethyl)ether	ND	9 4
2-Chlorophonol	ND	
1 2 Dichlerchongene	ND	
	ND	9.4
1,4-Dichlorobenzene	ND	9.4
Benzyl alcohol	ND	9.4
1,2-Dichlorobenzene	ND	9.4
2-Methylphenol	ND	9.4
bis(2-Chloroisopropyl) ether	ND	9.4
4-Methylphenol	ND	9.4
N-Nitroso-di-n-propylamine	ND	9 4
Hexachloroethane	ND	9 4
Nitrobongono	ND	$0$ $\Lambda$
Taenhevene		0.4
		9.4
2-Nitrophenol	ND	19
2,4-Dimethylphenol	ND	9.4
Benzoic acid	ND	47
bis(2-Chloroethoxy)methane	ND	9.4
2,4-Dichlorophenol	ND	9.4
1.2.4-Trichlorobenzene	ND	9.4
Naphthalene	ND	9 4
4-Chloroaniline	ND	9 4
Povadblorobutadiono	ND	$0$ $\Lambda$
A Chlore 2 methylphonel		0.4
4-Chioro-3-methyiphenoi	ND	9.4
2-Methylnaphthalene	ND	9.4
Hexachlorocyclopentadiene	ND	19
2,4,6-Trichlorophenol	ND	9.4
2,4,5-Trichlorophenol	ND	9.4
2-Chloronaphthalene	ND	9.4
2-Nitroaniline	ND	19
Dimethylphthalate	ND	9.4
Acenaphthylene	ND	9 4
2 6-Dinitrotoluene	ND	
2,0 Difficiocordene	ND	10
J-NICIOAIIIIIIIE		19
Acenapitinene	ND	9.4
2,4-Dinitrophenol	ND	19
4-Nitrophenol	ND	19
Dibenzoturan	ND	9.4
2,4-Dinitrotoluene	ND	9.4
Diethylphthalate	ND	9.4
Fluorene	ND	9.4
4-Chlorophenvl-phenvlether	ND	9.4
4-Nitroaniline	ND	19
4 6-Dinitro-2-methylphenol	ND	19
N Nitrogodiphonylamino	ND	
N-Nicrosourphenyiamine		9.4
		7.4 0.4
4-Bromophenyi-phenylether		9.4
Hexachlorobenzene	ND	9.4
Pentachlorophenol	ND	19
Phenanthrene	ND	9.4
Anthracene	ND	9.4
Di-n-butylphthalate	ND	9.4
Fluoranthene	ND	9.4
		~ • •



	Semivola	atile Organic	s by GC/MS	
Lab #: 2040 Client: LFR Project#: 001-	17 Levine Fricke 09567-07	Locati Prep: Analys	on: Hanson EPA 352 is: EPA 827	Radum AOG#1 0C 0C
Field ID: MW-1 Lab ID: 2040 Matrix: Wate Units: ug/L Diln Fac: 1 00	17-001 r	Batch# Sample Receiv Prepar Analvz	139353   d: 06/16/0   ed: 06/16/0   ed: 06/17/0   ed: 06/19/0	8 8 8 8
Ame lister			DI	-
Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidin Benzo(a)anthracene Chrysene bis(2-Ethylhexyl)phth Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyren Dibenz(a,h)anthracene Benzo(g,h,i)perylene	e ND ND alate ND ND ND ND ND ND ND ND ND ND ND	esuit	RL 9.4 9.4 19 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.	
Surrogate	%REC	T.imits		
2-Fluorophenol Phenol-d5 2,4,6-Tribromophenol Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	87 90 103 106 98 56	42-120 46-120 48-124 55-120 56-120 28-120		



	Semi	volatile On	ganics by	GC/MS	
Lab #:	204017		Location:	Hanson Radum AOG#1	
Client:	LFR Levine Fricke		Prep:	EPA 3520C	
Project#:	001-09567-07		Analysis:	EPA 8270C	
Field ID:	MW-2		Batch#:	139353	
Lab ID:	204017-002		Sampled:	06/16/08	
Matrix:	Water		Received:	06/16/08	
Units:	ug/L		Prepared:	06/17/08	
Diln Fac:	1.000		Analyzed:	06/19/08	
Anal	yte	Result		RL	
N-Nitrosodimeth	ylamine	ND		9.4	
Phenol		ND		9.4	
$   = \frac{1}{2} =$	-1 ) - + 1	175		0 1	

Phenol	ND	9.4
bis(2-Chloroethvl)ether	ND	9 4
2-Chlorophenol	ND	9 4
1 3-Dichlorobenzene	ND	9 4
1 4-Dichlorobenzene		9.1
Popryl algobol		
1 2-Dichlorobongono		9.1
2 Mothylphonol		9.4
2-Methylphenol big(2 Gbleweigenwervel) ether		9.4
A Mathulahanal		9.4
4-Methylphenol		9.4
N-Nitroso-di-n-propylamine	ND	9.4
Hexachloroethane	ND	9.4
Nitrobenzene	ND	9.4
Isophorone	ND	9.4
2-Nitrophenol	ND	19
2,4-Dimethylphenol	ND	9.4
Benzoic acid	ND	47
bis(2-Chloroethoxy)methane	ND	9.4
2,4-Dichlorophenol	ND	9.4
1,2,4-Trichlorobenzene	ND	9.4
Naphthalene	ND	9.4
4-Chloroaniline	ND	9.4
Hexachlorobutadiene	ND	9.4
4-Chloro-3-methylphenol	ND	9.4
2-Methylnaphthalene	ND	9 4
Hexachlorocyclopentadiene	ND	19
2 4 6-Trichlorophenol	ND	9 4
2,4,5-Trichlorophenol		9.1
2-Chloronaphthalene		9.1
2 Chioronaphenarene 2-Nitrophilipo		10
Agenerativitatione		9.4
		9.4
2,6-Dinitrotoiuene		9.4
3-Nitroaniline	ND	19
Acenaphthene	ND	9.4
2,4-Dinitrophenol	ND	19
4-Nitrophenol	ND	19
Dibenzofuran	ND	9.4
2,4-Dinitrotoluene	ND	9.4
Diethylphthalate	ND	9.4
Fluorene	ND	9.4
4-Chlorophenyl-phenylether	ND	9.4
4-Nitroaniline	ND	19
4,6-Dinitro-2-methylphenol	ND	19
N-Nitrosodiphenylamine	ND	9.4
Azobenzene	ND	9.4
4-Bromophenyl-phenylether	ND	9.4
Hexachlorobenzene	ND	9.4
Pentachlorophenol	ND	19
Phenanthrene	ND	9.4
Anthracene	ND	9.4
Di-n-butylphthalate	ND	9 4
Fluoranthene	ND	9 4
FIGUIUITEITE		2.1



		Semivola	atile	Organics by	GC/MS	
Lab #: Client: Project#:	204017 LFR Levine F 001-09567-07	ricke		Location: Prep: Analysis:	Hanson Radum AOG#1 EPA 3520C EPA 8270C	
Field ID: Lab ID: Matrix: Units: Diln Fac:	MW-2 204017-002 Water ug/L 1 000			Batch#: Sampled: Received: Prepared: Analyzed:	139353 06/16/08 06/16/08 06/17/08 06/19/08	
Inc			<b>1</b> +			
Pyrene Butylbenzylphthal 3,3'-Dichloroben Benzo(a)anthracen Chrysene bis(2-Ethylhexyl Di-n-octylphthala Benzo(b)fluoranth Benzo(k)fluoranth Benzo(a)pyrene Indeno(1,2,3-cd)p Dibenz(a,h)anthra Benzo(g,h,i)pery	late zidine pe phthalate ate nene nene pyrene acene lene	ND ND ND ND ND ND ND ND ND ND ND	esuit		9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4     9.4	
Surroga	ate	%REC	Limits			
2-Fluorophenol Phenol-d5 2,4,6-Tribromophe Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	enol	71 65 90 112 106 79	42-120 46-120 48-124 55-120 56-120 28-120			



Semiv	olatile Organi	cs by GC/MS	
Lab #: 204017	Locat	ion: Han	son Radum AOG#1
Client: LFR Levine Fricke	Prep	EPA	3520C
Project#: 001-09567-07	Analy	rsis: EPA	8270C
Field ID: MW-3	Batch	139 139	353
Lab ID: 204017-003	Samp.	_ed: 06/	16/08
Matrix: Water	Rece:	ved: 06/	16/08
Units: ug/L	Prepa	ared: U6/	1//08
Diin Fac: 1.000	Analy	zed: 06/	19/08
Analyte	Result	RI.	
N-Nitrosodimethylamine	ND	9.5	
Phenol	ND	9.5	
bis(2-Chloroethyl)ether	ND	9.5	
2-Chlorophenol	ND	9.5	
1,3-Dichlorobenzene	ND	9.5	
1,4-Dichlorobenzene	ND	9.5	
Benzyl alcohol	ND	9.5	
1,2-Dichlorobenzene	ND	9.5	
2-Methylphenol	ND	9.5	
bis(2-Chloroisopropyl) ether	ND	9.5	
4-Methylphenol	ND	9.5	
N-Nitroso-di-n-propylamine	ND	9.5	
Hexachloroethane	ND	9.5	
Nitrobenzene	ND	9.5	
Isophorone	ND	9.5	
2-Nitrophenol	ND	19	
2,4-Dimetnyiphenoi	ND	9.5	
Benzoic acia big(2 Chloreothours)mothere	ND	48 0 F	
2 4 Dichlorophonol		9.5	
1 2 A-Trighlorobongono		9.5	
Naphthalene		9.5	
4-Chloroaniline	ND	9.5	
Hexachlorobutadiene	ND	95	
4-Chloro-3-methylphenol	ND	9.5	
2-Methylnaphthalene	ND	9.5	

bis(2-Chloroisopropyl) ether	ND	9.5	
4-Methylphenol	ND	9.5	
N-Nitroso-di-n-propylamine	ND	9.5	
Hexachloroethane	ND	9.5	
Nitrobenzene	ND	9.5	
Isophorone	ND	9.5	
2-Nitrophenol	ND	19	
2,4-Dimethylphenol	ND	9.5	
Benzoic acid	ND	48	
bis(2-Chloroethoxy)methane	ND	9.5	
2,4-Dichlorophenol	ND	9.5	
1,2,4-Trichlorobenzene	ND	9.5	
Naphthalene	ND	9.5	
4-Chloroaniline	ND	9.5	
Hexachlorobutadiene	ND	9.5	
4-Chloro-3-methylphenol	ND	9.5	
2-Methylnaphthalene	ND	9.5	
Hexachlorocyclopentadiene	ND	19	
2,4,6-Trichlorophenol	ND	9.5	
2,4,5-Trichlorophenol	ND	9.5	
2-Chloronaphthalene	ND	9.5	
2-Nitroaniline	ND	19	
Dimethylphthalate	ND	9.5	
Acenaphthylene	ND	9.5	
2,6-Dinitrotoluene	ND	9.5	
3-Nitroaniline	ND	19	
Acenaphthene	ND	9.5	
2,4-Dinitrophenol	ND	19	
4-Nitrophenol	ND	19	
Dibenzofuran	ND	9.5	
2,4-Dinitrotoluene	ND	9.5	
Diethylphthalate	ND	9.5	
Fluorene	ND	9.5	
4-Chlorophenyl-phenylether	ND	9.5	
4-Nitroaniline	ND	19	
4,6-Dinitro-2-methylphenol	ND	19	
N-Nitrosodiphenylamine	ND	9.5	
Azobenzene	ND	9.5	
4-Bromophenyl-phenylether	ND	9.5	
Hexachlorobenzene	ND	9.5	
Pentachlorophenol	ND	19	
Phenanthrene	ND	9.5	
Anthracene	ND	9.5	
Di-n-butylphthalate	ND	9.5	
Fluoranthene	ND	9.5	



	Semivolatile	Organics by	GC/MS
Lab #: 204017 Client: LFR Lev	ine Fricke	Location: Prep:	Hanson Radum AOG#1 EPA 3520C EDA 8270C
Project#:001-095Field ID:MW-3Lab ID:204017-Matrix:WaterUnits:ug/LDilts:1000	003	Batch#: Sampled: Received: Prepared:	139353 06/16/08 06/16/08 06/17/08
		Allalyzeu	00/19/08
Analyte	Result		RL
Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene Chrysene bis(2-Ethylhexyl)phthala Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	ND ND ND ND ND ND ND ND ND ND ND ND ND N		9.5 9.5 19 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.
aurone met e	eped timit.	-	
2-Fluorophenol Phenol-d5 2,4,6-Tribromophenol Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	REC     Limit       72     42-12       70     46-12       87     48-12       105     55-12       99     56-12       57     28-12	<b>s</b> 0 0 4 0 0 0 0	



	Semivolatile Or	rganics by GC/M	IS
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 3520C
Project#:	001-09567-07	Analysis:	EPA 8270C
Field ID:	MW-5	Batch#:	139455
Lab ID:	204017-004	Sampled:	06/16/08
Matrix:	Water	Received:	06/16/08
Units:	ug/L	Prepared:	06/19/08
Diln Fac:	1.000	Analyzed:	06/20/08

Analyte	Result	RL	
N-Nitrosodimethylamine	ND	20	
Phenol	ND	20	
bis(2-Chloroethyl)ether	ND	20	
2-Chlorophenol	ND	20	
1,3-Dichlorobenzene	ND	20	
1,4-Dichlorobenzene	ND	20	
Benzyl alcohol	ND	20	
1.2-Dichlorobenzene	ND	20	
2-Methylphenol	ND	20	
bis(2-Chloroisopropyl) ether	ND	20	
4-Methylphenol	ND	20	
N-Nitroso-di-n-propylamine	ND	20	
Hexachloroethane	ND	20	
Nitrobenzene	ND	20	
Isophorope	ND	20	
2-Nitrophenol	ND	40	
2 4-Dimethylphenol	ND	20	
Poproja paid	ND	100	
big(2-Chloroothovy)mothano	ND	20	
2 4 Dishlexenhenel		20	
1, 2, 4 The shares	ND	20	
1, 2, 4-irichioropenzene	ND	20	
Naphthalene	ND	20	
4-Chloroaniline	ND	20	
Hexachlorobutadiene	ND	20	
4-Chloro-3-methylphenol	ND	20	
2-Methylnaphthalene	ND	20	
Hexachlorocyclopentadiene	ND	40	
2,4,6-Trichlorophenol	ND	20	
2,4,5-Trichlorophenol	ND	20	
2-Chloronaphthalene	ND	20	
2-Nitroaniline	ND	40	
Dimethylphthalate	ND	20	
Acenapĥtĥylene	ND	20	
2,6-Dinitrotoluene	ND	20	
3-Nitroaniline	ND	40	
Acenaphthene	ND	20	
2.4-Dinitrophenol	ND	$\frac{1}{40}$	
4-Nitrophenol	ND	40	
Dibenzofuran	ND	20	
2.4-Dinitrotoluene	ND	20	
Diethylphthalate	ND	20	
Fluorene	ND	20	
4-Chlorophenyl-phenylether	ND	20	
4-Chitorophenyr-phenyrecher 4-Nitrophilino	ND	20	
4 6 Dinitro 2 mothulphonol	ND	40	
A, 0-DINICIO-Z-methyiphenoi		20	
N-NICrosodiphenylamine	ND	20	
Azobenzene A Buenzen berezh er berezh et berez	ND	20	
4-Bromopneny1-pneny1etner	ND	20	
Hexachioropenzene	ND	20	
Pentachlorophenol	ND	40	
Phenanthrene	ND	20	
Anthracene	ND	20	
Di-n-butylphthalate	ND	20	
Fluoranthene	ND	20	



		Semivol	atile (	Organics by	GC/I	MS
Lab #: Client:	204017 LFR Levine F	ricke		Location: Prep:		Hanson Radum AOG#1
Project#:	001-09567-07	TICKC		Analysis:		EPA 8270C
Field ID:	MW-5			Batcĥ#:		139455
Lab ID:	204017-004			Sampled		06/16/08
Matrix:	Water			Received:		06/16/08
Diln Fac:	ug/L 1 000			Analyzed:		06/20/08
DIII IGC.	1.000			mary zea		00720700
Analy	rte	]	Result		RL	
Pyrene		ND			20	
Butylbenzylphtha	late	ND			20	
3,3 <sup>°</sup> -Dichioropen	lzidine				40	
Chrygene	116				20	
bis(2-Ethylhexyl	)phthalate	ND			20	
Di-n-octvlphthal	ate	ND			20	
Benzo(b)fluorant	hene	ND			20	
Benzo(k)fluorant	hene	ND			20	
Benzo(a)pyrene		ND			20	
Indeno(1,2,3-cd)	pyrene	ND			20	
Dibenz(a,h)anthr	acene	ND			20	
Benzo(g,h,1)pery	lene	ND			20	
Surrog	ate	%REC	Limits			
2-Fluorophenol		55	42-120			
Phenol-d5		55	46-120			
2,4,6-Tribromoph	enol	70	48-124			
Nitrobenzene-d5		96	55-120			
2-Fluorobiphenyl		83	56-120			
Terphenyl-d14		64	28-120			



	S	emivolatile	Organics by	GC/MS
Lab #:	204017		Location:	Hanson Radum AOG#1
Client:	LFR Levine Fr	icke	Prep:	EPA 3520C
Project#:	001-09567-07		Analysis:	EPA 8270C
Field ID:	MW-5D		Batch#:	139353
Lab ID:	204017-005		Sampled:	06/16/08
Matrix:	Water		Received:	06/16/08
Units:	ug/L		Prepared:	06/17/08
Diln Fac:	1.000		Analyzed:	06/19/08
3	+ -	Degult		77
Analy	te	Result		
Dhopol	Tallitile			9.4
big(2 Chloroothy	llothor			9.4
2 Chlorophonol	I)echer			9.4
1 3-Dighlorobong	ono			9.4
1, 3-Dichlorobenz	ene			9.4
Poprul algobal	ene			9.4
1 2 Dichlorobong	070			9.4
2-Mothylphonol	ene			$\mathcal{O}$
big(2-Chloroigon	ropyl) other			$\mathcal{O}$
A-Mothylphonol	iopyi) ether			$\mathcal{O}$
N-Nitrogo-di-n-n	ropylamino			$\mathcal{O}$
N-NICIOSO-GI-II-p	торуташтие			$\mathcal{O}$
Nitrobenzene				
Tsophorope				
2-Nitrophenol				19
2 A_Dimethylphen				
Benzoic acid		ND		2.4 47
hig(2-Chloroetho	vv)methane	ND		9 4
2 4-Dichlorophen		ND		9 4
1 2 4-Trichlorob				
Naphthalene	Jenzene	ND		9 4
4-Chloroaniline		ND		9 4
Heyachlorobutadi	ene	ND		9 4
4-Chloro-3-methy	Inhenol	ND		9 4
2-Methylnaphthal	ene	ND		9 4
Hexachlorocyclop	entadiene	ND		19
2.4.6-Trichlorop	henol	ND		9 4
2.4.5-Trichlorop	henol	ND		9.4
2-Chloronaphthal	ene	ND		9.4
2-Nitroaniline		ND		19
Dimethylphthalat	e	ND		9.4
Acenaphthylene	-	ND		9.4
2,6-Dinitrotolue	ne	ND		9.4
3-Nitroaniline		ND		19
Acenaphthene		ND		9.4
2,4-Dinitropheno	1	ND		19
4-Nitrophenol		ND		19
Dibenzofuran		ND		9.4
2,4-Dinitrotolue	ne	ND		9.4
Diethylphthalate	1	ND		9.4
Fluorene		ND		9.4
4-Chlorophenvl-p	henvlether	ND		94

2,4-Dinitrotoluene	ND	9.4	
Diethylphthalate	ND	9.4	
Fluorene	ND	9.4	
4-Chlorophenyl-phenylether	ND	9.4	
4-Nitroaniline	ND	19	
4,6-Dinitro-2-methylphenol	ND	19	
N-Nitrosodiphenylamine	ND	9.4	
Azobenzene	ND	9.4	
4-Bromophenyl-phenylether	ND	9.4	
Hexachlorobenzene	ND	9.4	
Pentachlorophenol	ND	19	
Phenanthrene	ND	9.4	
Anthracene	ND	9.4	
Di-n-butylphthalate	ND	9.4	
Fluoranthene	ND	9.4	



		Semivola	atile	Organics by	GC/MS	
Lab #: Client:	204017 LFR Levine F	ricke		Location: Prep:	Hanson Radum AOG#1 EPA 3520C	
Project#:	001-09567-07			Analysis:	EPA 8270C	
Field ID:	MW-5D			Batch#:	139353	
Lab ID:	204017-005			Sampled:	06/16/08	
Matrix:	Water			Received:	06/16/08	
Units:	ug/L			Prepared:	06/17/08	
Diln Fac:	1.000			Analyzed:	06/19/08	
Analyt	-0	R	esult		RT.	
Pyrene		ND	CBUIC		9.4	
Butylbenzylphthal	late	ND			9.4	
3,3'-Dichlorobenz	zidine	ND			19	
Benzo(a)anthracer	ne	ND			9.4	
Chrysene		ND			9.4	
bis(2-Ethylhexyl)	)phthalate	ND			9.4	
Di-n-octylphthala	ate	ND			9.4	
Benzo(b)fluoranth	nene	ND			9.4	
Benzo(k)fluoranth	nene	ND			9.4	
Benzo(a)pyrene		ND			9.4	
Indeno $(1, 2, 3-cd)$ r	pyrene	ND			9.4	
Dibenz(a,n)anthra	acene	ND			9.4	
Benzo(g,n,1)pery	Lene	ND			9.4	
Surroga	ate	%REC	Limits			
2-Fluorophenol		58	42-120			
Phenol-d5		59	46-120			
2,4,6-Tribromophe	enol	65	48-124			
Nitrobenzene-d5		87	55-120			
2-Fluorobiphenyl		85	56-120			
Terphenyl-d14		46	28-120			



	Semi	volatile (	Organics by	GC/MS
Lab #:	204017		Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke		Prep:	EPA 3520C
Project#:	001-09567-07		Analysis:	EPA 8270C
Field ID:	MW-6		Batch#:	139353
Lab ID:	204017-006		Sampled:	06/16/08
Matrix:	Water		Received:	06/16/08
Units:	ug/L		Prepared:	06/17/08
Diln Fac:	1.000		Analyzed:	06/19/08
Analy	te	Result		RL
N-Nitrosodimethy.	lamine	ND		9.6
Phenol		ND		9.6
bis(2-Chloroethy.	l)etner	ND		9.6
2-Chlorophenol		ND		9.6
1,3-Dichlorobenze	ene	ND		9.6
1,4-Dichlorobenze	ene	ND		9.6
Benzyl alcohol		ND		9.6
1,2-Dichlorobenze	ene	ND		9.6
2-Methylphenol	7	ND		9.6
bis(2-Chloroisopi	ropyl) ether	ND		9.6
4-Methylphenol		ND		9.6
N-Nitroso-di-n-pi	ropylamine	ND		9.6
Hexachloroethane		ND		9.6
Nitrobenzene		ND		9.6
lsophorone		ND		9.6

1,2 DICHIOLOBEHZEHE	ND	5.0
2-Methylphenol	ND	9.6
hig(2-Chloroigonronyl) ether		9 6
		5.0
4-Methylphenol	ND	9.6
N-Nitroso-di-n-propylamine	ND	9.6
Hevachloroethane		9.6
		9.0
Nitrobenzene	ND	9.6
Tsophorone	ND	9.6
2 Nitrophonol	ND	10
2,4-Dimethylphenol	ND	9.6
Benzoic acid	ND	48
big(2 Chlomostherry)mothers	ND	
DIS(2-CHIOrOechoxy)mechane	ND	9.0
2,4-Dichlorophenol	ND	9.6
1 2 4-Trichlorobenzene		9 6
	ND	
Naphthalene	ND	9.0
4-Chloroaniline	ND	9.6
Hevachlorobutadiene		9.6
		5.0
4-Chioro-3-methyiphenoi	ND	9.6
2-Methylnaphthalene	ND	9.6
Hexadlorogyalopontadiono	ND	10
hexaciiiorocycropencaurene		19
2,4,6-Trichlorophenol	ND	9.6
2.4.5-Trichlorophenol	ND	9.6
2 Oblemenenhthelene	ND	
	ND	9.0
2-Nitroaniline	ND	19
Dimethylphthalate	ND	9 6
Aconomistry i pricinatace	ND	0.6
Acenaphichyrene	ND	9.0
2,6-Dinitrotoluene	ND	9.6
3-Nitroaniline		19
J comerch theme	ND	
Acenaphunene	ND	9.0
2,4-Dinitrophenol	ND	19
4-Nitrophenol		19
	ND	
Dibenzoluran	ND	9.0
2,4-Dinitrotoluene	ND	9.6
Diethylphthalate		9 6
	ND	0.0
Fluorene	ND	9.0
4-Chlorophenyl-phenylether	ND	9.6
4-Nitroaniline		19
		10
4,6-Dinitro-2-methylphenol	ND	19
N-Nitrosodiphenylamine	ND	9.6
Archanzana		9 6
4-Bromopneny1-pneny1ether	ND	9.0
Hexachlorobenzene	ND	9.6
Pentachlorophenol		19
Pencachitorophenor		
Phenanthrene	ND	9.6
Anthracene	ND	9.6
Di n hutulnhthalata	ND	0.6
		2.0
Fluoranthene	ND	9.6



		Semivola	tile	Organics by	GC/MS	
Lab #: Client: Dreiget#:	204017 LFR Levine F	ricke		Location: Prep: Applygig:	Hanson Radum AOG#1 EPA 3520C EDA 8270C	
Field ID: Lab ID: Matrix: Units:	MW-6 204017-006 Water ug/L			Batch#: Sampled: Received: Prepared:	139353 06/16/08 06/16/08 06/17/08	
	1.000			Anaryzeu:	00/19/00	
Analy	te	Re	sult		RL	
Pyrene Butylbenzylphtha 3,3'-Dichloroben Benzo(a)anthrace Chrysene bis(2-Ethylhexyl Di-n-octylphthal Benzo(b)fluorant Benzo(a)pyrene Indeno(1,2,3-cd) Dibenz(a,h)anthr Benzo(q,h,i)pery	late zidine ne )phthalate ate hene hene pyrene acene lene	ND ND ND ND ND ND ND ND ND ND ND			9.6 9.6 19 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.	
-		<u> </u>				
Surrog	ate	%REC L	imits			
2-Fluorophenol Phenol-d5 2,4,6-Tribromoph Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	enol	55   4     53   4     48   4     77   5     85   5     52   2	2-120 6-120 8-124 5-120 6-120 8-120			



	Semi	volatile Organics by	GC/MS	
Lab #:	204017	Location:	Hanson Radum AOG#1	
Client:	LFR Levine Fricke	Prep:	EPA 3520C	
Project#:	001-09567-07	Analysis:	EPA 8270C	
Field ID:	MW-7	Batch#:	139353	
Lab ID:	204017-007	Sampled:	06/16/08	
Matrix:	Water	Received:	06/16/08	
Units:	uq/L	Prepared:	06/17/08	
Diln Fac:	1.000	Analyzed:	06/19/08	
Ana	alyte	Result	RL	
N-Nitrosodimet	thylamine	ND	9.4	
Phenol		ND	9.4	
hig(2-Chloroot	-hvl ) othor		0 1	

Dhamal		9.4
	ND	9.4
bis(2-Chloroethyl)ether	ND	9.4
2-Chlorophenol	ND	9.4
1,3-Dichlorobenzene	ND	9.4
1,4-Dichlorobenzene	ND	9.4
Benzyl alcohol	ND	9.4
1,2-Dichlorobenzene	ND	9.4
2-Methylphenol	ND	9.4
bis(2-Chloroisopropyl) ether	ND	9 4
4-Methylphenol	ND	9 4
N-Nitrogo-di-n-propylamine		9.1
Howachloroothano	ND	0.4
Nitrobonzono		0.4
Nitrobelizelle Trankassa		9.4
Isophorone	ND	9.4
2-Nitrophenol	ND	19
2,4-Dimethylphenol	ND	9.4
Benzoic acid	ND	47
bis(2-Chloroethoxy)methane	ND	9.4
2,4-Dichlorophenol	ND	9.4
1,2,4-Trichlorobenzene	ND	9.4
Naphthalene	ND	9.4
4-Chloroaniline	ND	9.4
Hexachlorobutadiene	ND	9 4
4-Chloro-3-methylphenol	ND	9 4
2-Mothylpaphthalono		
Z-Methymaphicharene Newschlomografionentodione		9.4 10
		19
2,4,6-Irichlorophenol	ND	9.4
2,4,5-Trichlorophenol	ND	9.4
2-Chloronaphthalene	ND	9.4
2-Nitroaniline	ND	19
Dimethylphthalate	ND	9.4
Acenaphthylene	ND	9.4
2,6-Dinitrotoluene	ND	9.4
3-Nitroaniline	ND	19
Acenaphthene	ND	9.4
2.4-Dinitrophenol	ND	19
4-Nitrophenol	ND	19
Dibenzofuran	ND	9.4
2.4-Dinitrotoluene	ND	9 4
Diethylphthalate	ND	9 4
Fluoropo		
A-Chlorophonyl-phonylother		
4-Chiorophenyi-phenyiether		9.4
4-Nitroaniline	ND	19
4, o-Dinitro-2-metnyiphenoi		19
N-Nitrosodiphenylamine	ND	9.4
Azobenzene	ND	9.4
4-Bromophenyl-phenylether	ND	9.4
Hexachlorobenzene	ND	9.4
Pentachlorophenol	ND	19
Phenanthrene	ND	9.4
Anthracene	ND	9.4
Di-n-butylphthalate	ND	9.4
Fluoranthene	ND	9.4
1 14014110110110	112	~ • ±



		Semivol	atile	Organics by	GC/MS	
Lab #: Client:	204017 LFR Levine F	ricke		Location: Prep:	Hanson Radum AOG EPA 3520C	#1
Project#:	001-09567-07			Analysis:	EPA 8270C	
Field ID:	MW-7			Batch#:	139353	
Lab ID:	204017-007			Sampled:	06/16/08	
Matrix:	Water			Received:	06/16/08	
Units:	ug/L			Prepared:	06/17/08	
Diln Fac:	1.000			Analyzed:	06/19/08	
3	<b>.</b> .		D1+		51	
Analy	te	NID	Result		<u>RL</u>	
Pyrene	1 - + -	ND			9.4	
Butyibenzyiphtha	Late	ND			9.4	
3,3'-Dichloroben	zidine	ND			19	
Benzo(a)anthrace	ne	ND			9.4	
Chrysene		ND			9.4	
bis(2-Ethylhexyl	)phthalate	ND			9.4	
Di-n-octylphthal	ate	ND			9.4	
Benzo(b)fluorant	hene	ND			9.4	
Benzo(k)fluorant	hene	ND			9.4	
Benzo(a)pyrene		ND			9.4	
Indeno(1,2,3-cd)	pyrene	ND			9.4	
Dibenz(a,h)anthr	acene	ND			9.4	
Benzo(g,h,i)pery	lene	ND			9.4	
		0				
Surrog	ate	%REC	Limits			
2-Fluorophenol		62	42-120			
Phenol-a5	7	60	46-120			
2,4,6-Tribromoph	eno⊥	51	48-124			
Nitrobenzene-d5		11	55-120			
2-Fluorobiphenyl		86	56-120			
Terphenyl-d14		51	28-120			



	Semi	volatile	Organics by	GC/MS
Lab #:	204017		Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke		Prep:	EPA 3520C
Project#:	001-09567-07		Analysis:	EPA 8270C
Field ID:	MW-8		Batch#:	139353
Lab ID:	204017-008		Sampled:	06/16/08
Matrix:	Water		Received:	06/16/08
Units:	ug/L		Prepared:	06/17/08
Diln Fac:	1.000		Analyzed:	06/19/08
Analy	te	Result		RL
N-Nitrosodimethy	lamine	ND		9.5
Phenol		ND		9.5
bis(2-Chloroethy	l)ether	ND		9.5
2-Chlorophenol		ND		9.5
1,3-Dichlorobenz	ene	ND		9.5
1,4-Dichlorobenz	ene	ND		9.5
Benzyl alcohol		ND		9.5
1,2-Dichlorobenz	ene	ND		9.5
2-Methylphenol		ND		9.5
bis(2-Chloroisop:	ropyl) ether	ND		9.5
4-Methylphenol		ND		9.5
N-Nitroso-di-n-p	ropylamine	ND		9.5

Phenol	ND	9.5
bis(2-Chloroethyl)ether	ND	9.5
2-Chlorophenol	ND	9.5
1.3-Dichlorobenzene	ND	9.5
1.4-Dichlorobenzene	ND	9.5
Benzyl alcohol	ND	9 5
1 2-Dichlorobenzene	ND	9 5
2-Methylphenol	ND	9.5
big(2-Chloroigopropyl) other		9.5
A_Mothylphonol		9.5
N Nitrogo di n propulomino		9.5 0 F
N-NICLOSO-GI-H-PLOPYIAMINE		9.5
Hexachioroethane	ND	9.5
Nitrobenzene	ND	9.5
Isophorone	ND	9.5
2-Nitrophenol	ND	19
2,4-Dimethylphenol	ND	9.5
Benzoic acid	ND	48
bis(2-Chloroethoxy)methane	ND	9.5
2,4-Dichlorophenol	ND	9.5
1,2,4-Trichlorobenzene	ND	9.5
Naphthalene	ND	9.5
4-Chloroaniline	ND	9.5
Hexachlorobutadiene	ND	9.5
4-Chloro-3-methylphenol	ND	9 5
2-Methylnaphthalene	ND	9 5
Hexachlorocyclopentadiene	ND	19
2 A 6-Trichlorophonol		
2,4,0-IIICHIOIOphenoi	ND	9.J 0 E
2,4,5-IIICHIOIOPHENOI		9.5 0 F
		9.5
2-Nitroaniline	ND	19
Dimetnyiphthalate	ND	9.5
Acenaphthylene	ND	9.5
2,6-Dinitrotoluene	ND	9.5
3-Nitroaniline	ND	19
Acenaphthene	ND	9.5
2,4-Dinitrophenol	ND	19
4-Nitrophenol	ND	19
Dibenzofuran	ND	9.5
2,4-Dinitrotoluene	ND	9.5
Diethvlphthalate	ND	9.5
Fluorene	ND	9.5
4-Chlorophenyl-phenylether	ND	9 5
4-Nitroaniline	ND	19
4 6-Dinitro-2-methylphenol	ND	10
N-Nitrogodiphonylamino		
Acobongono	ND	9.J 0 E
A Dromonhanti nhantiathan		
		フ・D 0 F
Hexaciiiorobenzene		y.J
Penuachiorophenol		13
Pnenanthrene	ND	9.5
Anthracene	ND	9.5
Di-n-butylphthalate	ND	9.5
Fluoranthene	ND	9.5



	Semivolati	le Organics by	GC/MS
Lab #: 20401 Client: LFR I Project#: 001-0	.7 Jevine Fricke 19567-07	Location: Prep: Analysis:	Hanson Radum AOG#1 EPA 3520C EPA 8270C
Field ID:MW-8Lab ID:20401Matrix:WaterUnits:ug/LDiln Fac:1.000	7-008	Batch#: Sampled: Received: Prepared: Analyzed:	139353 06/16/08 06/16/08 06/17/08 06/19/08
Applyto.	Pogy	,1+	DI
Pyrene Butylbenzylphthalate 3,3'-Dichlorobenzidine Benzo(a)anthracene Chrysene bis(2-Ethylhexyl)phtha Di-n-octylphthalate Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene Benzo(g,h,i)perylene	ND ND ND ND ND ND ND ND ND ND ND ND ND N	110	9.5 9.5 19 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.
Surrogate	%REC Lim	nits	
2-Fluorophenol Phenol-d5 2,4,6-Tribromophenol Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	70 42- 71 46- 75 48- 92 55- 91 56- 39 28-	-120 -120 -124 -120 -120 -120 -120	



	Semi	volatile	Organics by	GC/MS
Lab #:	204017		Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	9	Prep:	EPA 3520C
Project#:	001-09567-07		Analysis:	EPA 8270C
Field ID:	MW-9		Batch#:	139353
Lab ID:	204017-009		Sampled:	06/16/08
Matrix:	Water		Received:	06/16/08
Units:	ug/L		Prepared:	06/17/08
Diln Fac:	1.000		Analyzed:	06/19/08
Analy	te	Result		RL
Analy N-Nitrosodimethy	<b>te</b> lamine	Result ND		<b>RL</b> 9.5
Analy N-Nitrosodimethy Phenol	<b>te</b> lamine	Result ND ND		<b>RL</b> 9.5 9.5
Analy N-Nitrosodimethy Phenol bis(2-Chloroethy	<b>te</b> lamine l)ether	Result ND ND ND		<b>RL</b> 9.5 9.5 9.5
Analy N-Nitrosodimethy Phenol bis(2-Chloroethy 2-Chlorophenol	<b>te</b> lamine l)ether	<b>Result</b> ND ND ND ND		<b>RL</b> 9.5 9.5 9.5 9.5
Analy N-Nitrosodimethy Phenol bis(2-Chloroethy 2-Chlorophenol 1,3-Dichlorobenz	<b>te</b> lamine l)ether ene	Result ND ND ND ND ND		<b>RL</b> 9.5 9.5 9.5 9.5 9.5 9.5
Analy N-Nitrosodimethy Phenol bis(2-Chloroethy 2-Chlorophenol 1,3-Dichlorobenz 1,4-Dichlorobenz	<b>te</b> lamine l)ether ene ene	Result ND ND ND ND ND ND		<b>RL</b> 9.5 9.5 9.5 9.5 9.5 9.5 9.5
Analy N-Nitrosodimethy Phenol bis(2-Chloroethy 2-Chlorophenol 1,3-Dichlorobenz 1,4-Dichlorobenz Benzyl alcohol	<b>te</b> lamine l)ether ene ene	Result ND ND ND ND ND ND ND ND		<b>RL</b> 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5
Analy N-Nitrosodimethy Phenol bis(2-Chloroethy 2-Chlorophenol 1,3-Dichlorobenz 1,4-Dichlorobenz Benzyl alcohol 1,2-Dichlorobenz	<b>te</b> lamine l)ether ene ene ene	Result ND ND ND ND ND ND ND ND ND		<b>RL</b> 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5
Analy N-Nitrosodimethy Phenol bis(2-Chloroethy 2-Chlorophenol 1,3-Dichlorobenz 1,4-Dichlorobenz Benzyl alcohol 1,2-Dichlorobenz 2-Methylphenol	<b>te</b> lamine l)ether ene ene ene	Result ND ND ND ND ND ND ND ND ND ND		<b>RL</b> 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5
Analy N-Nitrosodimethy Phenol bis(2-Chloroethy 2-Chlorophenol 1,3-Dichlorobenz 1,4-Dichlorobenz Benzyl alcohol 1,2-Dichlorobenz 2-Methylphenol bis(2-Chloroisop	te lamine l)ether ene ene ropyl) ether	Result ND ND ND ND ND ND ND ND ND ND ND		<b>RL</b> 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5

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	9.5	
ND	9.5	
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ND	9.5	
ND	95	
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ND	19	
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ND	95	
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ND	9.5	
NID	10	
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ND	19	
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	:	Semivolat	ile Or	ganics by	GC/MS	
Lab #: 2 Client: I Project#: 0	204017 LFR Levine F: )01-09567-07	ricke		Location: Prep: Analysis:	Hanson Radum AOG EPA 3520C EPA 8270C	#1
Field ID:MLab ID:2Matrix:WUnits:UDiln Fac:1	1W-9 204017-009 Nater 1g/L -000			Batch#: Sampled: Received: Prepared: Analvzed:	139353 06/16/08 06/16/08 06/17/08 06/19/08	
۸nalarta		Pog	] <i>⊢</i>	*	DI	
Pyrene Butylbenzylphthala 3,3'-Dichlorobenzi Benzo(a)anthracene Chrysene bis(2-Ethylhexyl)p Di-n-octylphthalat Benzo(b)fluoranthe Benzo(k)fluoranthe Benzo(a)pyrene Indeno(1,2,3-cd)py Dibenz(a,h)anthrac Benzo(g,h,i)peryle	ate dine ohthalate ene ene vrene cene cene	ND ND ND ND ND ND ND ND ND ND ND ND ND N			9.5 9.5 19 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.	
Surrogat	e	%REC Li	mits			
2-Fluorophenol Phenol-d5 2,4,6-Tribromopher Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14	nol	80     42       85     46       83     48       99     55       93     56       50     28	-120 -120 -124 -120 -120 -120 -120			



	Semi	volatile (	Organics by	GC/MS
Lab #:	204017		Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	5	Prep:	EPA 3520C
Project#:	001-09567-07		Analysis:	EPA 8270C
Field ID:	MW-10		Batch#:	139353
Lab ID:	204017-010		Sampled:	06/16/08
Matrix:	Water		Received:	06/16/08
Units:	ug/L		Prepared	06/17/08
Diln Fac:	1.000		Analyzed:	06/19/08
Analyt	0	Regult		PT.
N-Nitrosodimethyl	amine	ND		9.4
Phenol		ND		9.4
bis(2-Chloroethyl	)ether	ND		9.4
2-Chlorophenol		ND		9.4
1,3-Dichlorobenze	ene	ND		9.4
1,4-Dichlorobenze	ene	ND		9.4
Benzyl alcohol		ND		9.4
1,2-Dichlorobenze	ene	ND		9.4
2-Methylphenol		ND		9.4
bis(2-Chloroisopr	copyl) ether	ND		9.4
4-Methylphenol		ND		9.4
N-Nitroso-di-n-pr	ropylamine	ND		9.4
Hexachloroethane		ND		9.4
Nitrobenzene		ND		9.4
Isophorone		ND		9.4
2-Nitrophenol	. 1	ND		19
2,4-Dimethyiphend		ND		9.4
big(2 Chloroothow	ar)mothano			47
2 4-Dichloropheno				9.4 9.4
1 2 4-Trichlorobe		ND		9.4
Naphthalene		ND		9 4
4-Chloroaniline		ND		9.4
Hexachlorobutadie	ene	ND		9.4
4-Chloro-3-methyl	phenol	ND		9.4
2-Methylnaphthale	ène	ND		9.4
Hexachlorocyclope	entadiene	ND		19
2,4,6-Trichloroph	lenol	ND		9.4
2,4,5-Trichloroph	lenol	ND		9.4
2-Chloronaphthale	ene	ND		9.4
2-Nitroaniline		ND		19
Dimetnyiphthalate		ND		9.4
Acenapiitnyiene				9.4
3-Nitroaniline	Ie			19.4
Acenaphthene		ND		94
2.4-Dinitrophenol		ND		19
4-Nitrophenol	-	ND		19
Dibenzofuran		ND		9.4
2,4-Dinitrotoluen	ne	ND		9.4
Diethylphthalate		ND		9.4
Fluorene		ND		9.4
4-Chlorophenyl-ph	nenylether	ND		9.4
4-Nitroaniline		ND		19
4,6-Dinitro-2-met	hylphenol	ND		19
N-Nitrosodiphenyl	amine	ND		9.4
Azobenzene		ND		9.4
4-Bromophenyl-phe	enyletner			9.4
hexachiorobenzene				9.4 10
Phononthrono	-			
Anthraceno		חאד		
Di-n-hutvlphthala	ate	ND		94
Fluoranthene		ND		9.4
401 4110110110		-11-L		2 · · ·



		Semivola	atile	Organics by	GC/MS	
Lab #: Client:	204017 LFR Levine F	ricke		Location: Prep:	Hanson Radum AOG#1 EPA 3520C	
Project#:	001-09567-07			Analysis:	EPA 8270C	
Field ID:	MW-10			Batcĥ#:	139353	
Lab ID:	204017-010			Sampled:	06/16/08	
Matrix:	Water			Received:	06/16/08	
Units:	ug/L			Prepared:	06/17/08	
Diln Fac:	1.000			Analyzed:	06/19/08	
Analy	rte.	R	esult		RT.	
Pyrene		ND	CDUIC		9.4	
Butylbenzylphtha	late	ND			9.4	
3,3'-Dichloroben	zidine	ND			19	
Benzo(a)anthrace	ene	ND			9.4	
Chrysene		ND			9.4	
bis(2-Ethylhexyl	)phthalate	ND			9.4	
Di-n-octylphthal	.ate	ND			9.4	
Benzo(b)fluorant	hene	ND			9.4	
Benzo(k)fluorant	hene	ND			9.4	
Benzo(a)pyrene		ND			9.4	
Indeno(1,2,3-cd)	pyrene	ND			9.4	
Dibenz(a,n)anthr	acene	ND			9.4	
Belizo(g,II,I)pery	Telle	ND			9.4	
Surrog	ate	%REC	Limits			
2-Fluorophenol		80	42-120			
Phenol-d5		85	46-120			
2,4,6-Tribromoph	lenol	89	48-124			
Nitrobenzene-d5		97	55-120			
2-Fluorobiphenyl		94	56-120			
Terphenyl-d14		45	28-120			



Lab     H:     204017     Location:     Hansen Radum XOG#1       Client:     LFR Levine Pricke     Prep:     PRA 3520C       ProjectH:     001-03557-07     Analyzis:     PRA 3520C       Dab     D.     06478668     DatchH:     13333       Mairix:     Water     Prepared:     06/17/08       Mairix:     Water     Prepared:     06/18/08       *     Analyzes:     06/18/08       *     Mairix:     ND     10       Phirrosolmethylamine     ND     10       Dis(2-Chlorophrol)tether     ND     10       1:4-Dichlorobersene     ND     10       2:4-Dichlorobersene     ND     10		Semivolatile	Organics by GC	/MS
Client:     DFR Levine Pricke     Prep:     EPA 8230C       Type:     BLANK     Dilh Fac:     1000       Lab D:     00446668     Batchi:     10333       Mits:     ug/L     Dilh Fac:     1000       Nalyzet:     06/18/08     Dilh Fac:     10333       Matter:     ug/L     Nalyzet:     06/18/08       Nalyzet:     06/18/08     Dilh Fac:     06/18/08       Nalyzet:     06/18/08     Dilh Fac:     06/18/08       Nalyzet:     ND     10     Dilh Fac:     06/18/08       1.3 Dichlorobenzene     ND     10     Dilh Fac:     06/18/08       1.4 Dichlorobenzene     ND     10     Dilh Fac:     06/18/08       1.4 Dichlorobenzene     ND     10     Dilh Fac:     06/18/08       1.4 Dichlorobenzene     ND     10     Dilh Fac:     Dilh Fac:       1.4 Dichlorobenzene     ND     10     Dilh Fac:     Dilh Fac:       1.4 Dichlorobenzene     ND     10     Dilh Fac:     Dilh Fac:       1.4 Dichlorobenzene	Lab #: 204017		Location:	Hanson Radum AOG#1
Project#:     DOI-05567-07     Analysis:     FPA #270c       Type:     BLANK     DIIn Pac:     1.000       Hab DD:     QC446868     Batch#:     133353       Matrix:     Water     Prepared:     D6/17/08       Units:     ug/L     Analyzed:     D6/17/08       N=Nitrosodimethylamine     ND     10       Phenol     ND     10       2-Chlorophenol     ND     10       12-Chlorophenol     ND     10       12-Chlorophenol     ND     10       12-SothOroberzene     ND     10       12-SothOroberzene     ND     10       12-SothOroberzene     ND     10       13-SothOroberzene     ND	Client: LFR Levine	Fricke	Prep:	EPA 3520C
Pype     Disk     Disk     Disk     I todo       Lab D:     QC446868     Batch#:     139353       Matrix:     Water     Prepared:     06/17/08       Dilts:     Ug/L     Analyzed:     06/18/08       Pathroscinchthis:     139353     Dista:     06/18/08       Pathroscinchthis:     ug/L     Analyzed:     06/18/08       Pathroscinchthis:     ug/L     ND     10       1:3-Dichlorobenzene     ND     10     Dista:       1:3-Dichlorobenzene     ND     10     Dista:       1:4-Dichlorobenzene     ND     10     Dista:       1:4-Stolorobenzene     ND     10     Dista:       1:4-Dichlorobenzene     ND     10     Dista:<	Project#: 001-09567-	17 17	Analysis:	EPA 8270C
Lab     DC446666     Batch#*     139353       Matrix:     Water     Prepared:     06/17/08       Units:     ug/L     Analyzed:     06/18/08       Thirssecdimethylamine     ND     10       Dhenol     ND     10       2-Chiorophylather     ND     10       1:4-Dichlorobenzene     ND     10       1:4-Mitrobenzene     ND     10       1:4-Dichlorobenzene     ND     <	Type: BLANK		Diln Fac:	1 000
Marrix:     Water     Prepared:     06/17/08       Inits:     ug/L     Analyzed:     06/18/08       Inits:     ug/L     06/18/08       N=Mitrosodimethylamine     ND     10       Phenol     ND     10       1:3-Dichlorophenol     ND     10       1:3-Dichlorophenzene     ND     10       1:3-Dichlorobenzene     ND     10       1:4-Dichlorobenzene     ND     10       1:2-Mitrophenol     ND     10       1:2-Mitrophenol     ND     10       1:2-Mitrophenol     ND     10       2-Mitrophenol     ND     10       2-Mitrophenol     ND     10       2-Mitrophenol     ND     10       2-Mitrophenol     ND     10       2-Mitropheno	Lab ID: 0C446868		Batch#:	130353
Init:     Market     Flephilet:     OP/10/08       Philtrosodimethylamine     ND     10       Phenol     ND     10       Phenol     ND     10       2-Chloropthenol     ND     10       1.4 - Othoroptenzene     ND     10       1.4 - Othoroptenzene     ND     10       2-Chloroptenol     ND     10       2-Methylphenol     ND     10       2-Arbinethylphenol     ND	Matrix: Water		Droparod:	157555
Analyte     Result     RL       N-Mitrosodimethylamine     ND     10       Did(2-Chloroethyl)ether     ND     10       2-Chlorophenol     ND     10       1,4-Dichlorobenzene     ND     10       1,4-Dichlorobenzene     ND     10       1,4-Dichlorobenzene     ND     10       2-Methylphenol     ND     10       Benzyl Alcohol     ND     10       PMethylphenol     ND     10       N-Nitroso-di-n-propylamine     ND     10       Nitrobenzene     ND     10       Nitroberzene     ND     10       Nexachlorophenol     ND     10       Nitroberzene     ND     10       12/4-Dichlorophenol     ND     10       12/4-Dichlorophenol     ND     10       12/4-Trichlorophenol     ND     10       12/4-Dichlorophenol     ND     10       12/4-frichlorophenol     ND     10       12/4-frichlorophenol     ND     10       12/4-frichlorophenol     ND <td>Matrix: Water</td> <td></td> <td>Prepareu:</td> <td>00/17/00</td>	Matrix: Water		Prepareu:	00/17/00
Analyte     Regult     Rt       Phenol     ND     10       Phenol     ND     10       Dis(2-Chloropthenol     ND     10       2-Chlorophenol     ND     10       1,3-Dichlorobenzene     ND     10       Enzyl alcohol     ND     10       1,2-Dichlorobenzene     ND     10       2-Methylphenol     ND     10       1.2-Dichlorobenzene     ND     10       2-Methylphenol     ND     10       NNItrosocii-n-propylamine     ND     10       Methylphenol     ND     10       Hexachloroethane     ND     10       Isophorone     ND     10       Benzoic acid     ND     10       2.4-Dimethylphenol     ND     10       1.2-Chloroethoxylmethane     ND     10       2.4-Dimethylphenol     ND     10       2.4-Dichorophenol     ND     10       2.4-Chloroethoxylmethane     ND     10       2.4-Chlorophenol     ND     10	UIILS: Ug/L		Allalyzeu.	06/18/08
Number     Number     Number     Number     Number       Phenol     ND     10       Dis(2-Chloroethyl)ether     ND     10       2-Chlorophenol     ND     10       1.4-Dichlorobenzene     ND     10       1.4-Dichlorobenzene     ND     10       1.2-Dichlorobenzene     ND     10       1.2-Dichlorobenzene     ND     10       1.2-Dichlorobenzene     ND     10       Hexachlorobenzene     ND     10       Hexachlorobetane     ND     10       Nitrobenzene     ND     10       Isophorone     ND     10       2-4Lirophenol     ND     10       1.2-2-Chloroethoxylmethane     ND     10       1.2-2-4-Trichlorophenol     ND     10       2.4-Dichlorophenol     ND     10       1.2, 4-Trichlorophenol     ND     10       1.2, 4-Trichlorophenol     ND     10       2.4.5-Trichlorophenol     ND     10       2.4.5-Trichlorophenol     ND     10 <t< th=""><th>Analyte</th><th>Pegult</th><th>PT.</th><th></th></t<>	Analyte	Pegult	PT.	
Phenol     10       Dis(32-Chlorophenol)     ND     10       2-Chlorophenol     ND     10       1,3-Bichlorobenzene     ND     10       1,3-Bichlorobenzene     ND     10       1,3-Bichlorobenzene     ND     10       1,3-Bichlorobenzene     ND     10       2-Methylphenol     ND     10       1,2-Dichlorobenzene     ND     10       2-Methylphenol     ND     10       1/2-Chlorobenzene     ND     10       Mitrobenzene     ND     10       Hexachloroethaav     ND     10       Hexachloroethoxy)methane     ND     10       Sephorone     ND     10       Sephorone     ND     10       2-Altrophenol     ND     10       3-1 chloroethoxy)methane     ND     10       4-2 Chloroethoxy)methane     ND     10       4-2 Chloroethoxy)methane     ND     10       4-2 Chloroethoxy)methane     ND     10       4-2 Chloroeneniline     ND     10	N-Nitrosodimethylamine	ND	1(	า
iiii/2-chloroethyl)ether     ND     10       2-Chlorophenol     ND     10       1,4-Dichlorobenzene     ND     10       1,2-Dichlorobenzene     ND     10       1,2-Dichlorobenzene     ND     10       2-Methylphenol     ND     10       2-Methylphenol     ND     10       2-Methylphenol     ND     10       Haschloroethame     ND     10       Scophorobe     ND     10       Particopenol     ND     10       2.4-Dimetylphenol     ND     10       Particopenol     ND     10       2.4-Dichlorophenzene     ND     10       A-Chloroathawylmethane     ND     10       2.4-Dichlorophenzene     ND     10       2.4-Strichlorophenzene     ND     10       2.4-Strichlorophenzene     ND <td< td=""><td>Phenol</td><td>ND</td><td>1(</td><td>5 1</td></td<>	Phenol	ND	1(	5 1
1-0-10-10-10-10-10-10-10-10-10-10-10-10-	hig(2-Chloroothyl)othor		1(	5 N
1.3.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	2-Chlorophonol		1(	5 N
1.4-bithiorbitzene     ND     10       1.2-bithiorbenzene     ND     10       2-Methylphenol     ND     10       Jawethylphenol     ND     10       Amethylphenol     ND     10       Hexachlorosthane     ND     10       Nitroso-di-n-propylamine     ND     10       Nitrobenzene     ND     10       Sophorone     ND     10       Jack Sophorobetadiene	1 2 Dichlerobongono		1 (	
Interpretendence     NU     Interpretendence       Interpretendence     NU     10       Interendence     NU     10 <td>1, 5-Dichiorobenzene</td> <td></td> <td>1 (</td> <td></td>	1, 5-Dichiorobenzene		1 (	
Period     ND     10       1.2-Dichlorobenzene     ND     10       2-Methylphenol     ND     10       18(2-Chlorobenzene     ND     10       4-Mithylphenol     ND     10       4-Mithylphenol     ND     10       His(2-Chlorobenzene     ND     10       Bophorobe     ND     10       Jack     ND     10 <t< td=""><td>1,4-Dichiorobenzene</td><td></td><td>10</td><td></td></t<>	1,4-Dichiorobenzene		10	
1.2-Putchildrobenzene ND 10   2-Methylphenol ND 10   Heiszchloroisopropyl) ether ND 10   Nitroso-di-n-propylamine ND 10   Nitrobenzene ND 10   Nitrobenzene ND 10   Sophorone ND 10   Jack Particle ND 10   Jac	Benzyi alconol		10	
2-Methylphenol     ND     10       4-Methylphenol     ND     10       4-Methylphenol     ND     10       M-Nitroso-di-n-propylamine     ND     10       Methylphenol     ND     10       Hexachloroethane     ND     10       Ntrobenzene     ND     10       Jamirophenol     ND     10       Senzic acid     ND     10       Beis(2-Chloroethaxylmethane     ND     10       J.2, 4-Tirchlorophenol     ND     10       A-Chloroaniline     ND     10       A-Chloroaniline     ND     10       Hexachlorobutadiene     ND     10       A-Chloroaniline     ND     10       Hexachlorophenol     ND     10       A-Chloroaphthalene     ND     10       Z.4, 5-Trichlorophenol     N	1, 2-DICHIOFODENZENE			
Disk     Construction     Disk     10       4-Methylphenol     ND     10       N-Nitroso-di-n-propylamine     ND     10       Nitroso-di-n-propylamine     ND     10       Nitrobenzene     ND     10       Nitrobenzene     ND     10       Sophorone     ND     10       2-Nitrophenol     ND     20       2.4-Dintorophenol     ND     10       J.2.4-Tirichlorophenol     ND     10       J.2.4-Tirichlorophenol     ND     10       J.2.4-Tirichlorophenol     ND     10       A-Chloro-amethylphenol     ND     10       Hexachlorophenol     ND     10       2-Methylphenol     ND     10       2-Methylphylphenol     ND <td>2-Methylphenol</td> <td>ND</td> <td></td> <td>J</td>	2-Methylphenol	ND		J
4-Methylphenol     ND     10       N-Nitroso-di-n-propylamine     ND     10       Hexachloroethane     ND     10       Nitrobenzene     ND     10       Isophorone     ND     10       J-Nitrophenol     ND     20       2.4-Dimethylphenol     ND     10       Benzoic acid     ND     10       J.4-Dichlorophenol     ND     10       J.4.7-Trichlorobenzene     ND     10       A.4-Trichlorophenol     ND     10       Hexachlorophenol     ND     10       4-Chloroaniline     ND     10       Hexachloroptotadiene     ND     10       4-Kothylnaphthalene     ND     10       2-Methylnaphthalene     ND     10       2.4.6.7.Trichlorophenol     ND     10       2.4.7.5.Trichlorophenol     ND     10       2.4.6.7.Trichlorophenol     ND     10       2.6.Drintotoluene     ND     10       2.6.Drintotoluene     ND     10       2.6.Folnitotoluene <t< td=""><td>bis(2-Chioroisopropyi) ethe</td><td>r ND</td><td></td><td>J</td></t<>	bis(2-Chioroisopropyi) ethe	r ND		J
N=Ntroso-ai-n-propylamine     ND     10       Nitrobenzene     ND     10       Nitrobenzene     ND     10       Isophorone     ND     10       2-Nitrophenol     ND     20       2,4-Dimethylphenol     ND     10       Benzoic acid     ND     10       J.2,4-Tirchlorophenol     ND     10       1,2,4-Tirchlorophenol     ND     10       1,2,4-Tirchlorophenol     ND     10       4-Chloroalline     ND     10       4-Chloroophonol     ND     10       4-Chloroophonol     ND     10       4-Chloroophonol     ND     10       4-Chloroophonol     ND     10       2,4,5-Trichlorophenol     ND     10       2,4,5-Trichlorophenol     ND     10       2,4,5-Trichlorophenol     ND     10       2,6-Dinitrotoluene     ND     10       2,6-Dinitrotoluene     ND     20       2,4,5-Trichlorophenol     ND     20       2,4-Dinitrotoluene     ND	4-Metnyipnenoi	ND		J
HexachloroethaneND10NitrobenzeneND10JenktrophenolND202.A't-pimethylphenolND202.4-binethylphenolND10Benzoic acidND10Jenzoic acidND10J.4-DichlorophenolND101.2.4-TrichlorobenzeneND10AghthaleneND10HexachlorophenolND104-ChloroanilineND104-ChloroanitheneND104-ChloroophenolND104-ChloroophenolND104-ChloroophenolND102-MethylnaphthaleneND104-ChloroophenolND102.4.6.5.TrichlorophenolND102.4.5.TrichlorophenolND102.4.5.TrichlorophenolND102.4.6.TrichlorophenolND102.4.6.TrichlorophenolND102.4.7.5.TrichlorophenolND102.6.10.TrichlorophenolND102.6.10.TrichlorophenolND102.6.10.TrichlorophenolND102.6.10.TrichlorophenolND102.6.10.TrichlorophenolND102.6.10.TrichlorophenolND102.6.10.TrichlorophenolND202.6.10.TrichlorophenolND202.6.10.TrichlorophenolND202.6.10.TrichlorophenolND202.6.10.TrichlorophenolND <td< td=""><td>N-Nitroso-di-n-propylamine</td><td>ND</td><td>10</td><td></td></td<>	N-Nitroso-di-n-propylamine	ND	10	
Nitrobenzene     ND     10       Isophorone     ND     10       2-Nitrophenol     ND     20       2,4-Dimethylphenol     ND     50       Disis(2-Chloroethoxy)methane     ND     10       1,2,4-Trichloroophenol     ND     10       1,2,4-Trichloroophenol     ND     10       Naphthalene     ND     10       4-Chloroothoxy)methane     ND     10       4-Chloroophanol     ND     10       2-Mitronaphthalene     ND     10       2.4,6-Trichloroophenol     ND     10       2-Nitroaniline     ND     10       2-Mitroaniline     ND     10       2.6-Dinitrotoluene     ND     10       3-Nitroaniline     ND     20       A-Stritrohorophenol     ND     2	Hexachloroethane	ND	10	0
Isophorone     ND     10       2-Nitrophenol     ND     20       2,4-Dimethylphenol     ND     10       Benzoic acid     ND     10       J,4-Dichorophenol     ND     10       1,2,4-Trichlorobenzene     ND     10       Naphthalene     ND     10       4-Chloroanline     ND     10       4-Chloroanline     ND     10       4-Chloroanline     ND     10       4-Chlorophenol     ND     10       4-Chlorophenol     ND     10       4-Chlorophenol     ND     10       2-Mitrophenol     ND     10       2-Af.6-Trichlorophenol     ND     10       2.4,5-Trichlorophenol     ND     10       2.4,5-Trichlorophenol     ND     10       2-Nitroanline     ND     10       2-Nitroanline     ND     10       2.4,5-Trichlorophenol     ND     10       3-Nitroanline     ND     10       2.4-Dinitrotoluene     ND     10	Nitrobenzene	ND	10	0
2-Nitrophenol   ND   20     2.4-Dichtrophenol   ND   50     bis(2-Chloroethoxy)methane   ND   10     2.4-Dichlorophenol   ND   10     1.2,4-Trichlorophenol   ND   10     Naphthalene   ND   10     Hexachlorobutadiene   ND   10     4-Chloro-3-methylphenol   ND   10     4-Chloro-3-methylphenol   ND   10     4-Kexachlorocyclopentadiene   ND   10     2-Methylphanphthalene   ND   10     2.4, 6-Trichlorophenol   ND   10     2.4, 5-Trichlorophenol   ND   10     2.4, 5-Trichlorophenol   ND   10     2-Chloronaphthalene   ND   10     2-Chloronaphthalene   ND   10     2.4, 6-Trichlorophenol   ND   10     2.6-Dinitrotoluene   ND   10     3-Nitroaniline   ND   20     A-cenaphthylene   ND   20     A-Dinitrotoluene   ND   20     4-Nitroaniline   ND   20     4-Nitroaniline   N	Isophorone	ND	10	0
2,4-pimethylphenol ND 10   Benzoic acid ND 50   bis(2-Chloropethoxy)methane ND 10   1,2,4-Trichlorobenzene ND 10   Naphthalene ND 10   4-Chloroaniline ND 10   Hexachlorobutadiene ND 10   4-Chloro-3-methylphenol ND 10   2-Methylnaphthalene ND 10   2-Methylnaphthalene ND 10   2.4,6-Trichlorophenol ND 10   2.4,6-Trichlorophenol ND 10   2.4,6-Trichlorophenol ND 10   2-Nitroaniline ND 10   2-Nitroaniline ND 10   2-Nitroaniline ND 10   2-Nitroaniline ND 10   2.6-Dinitrotoluene ND 10   3-Nitroaniline ND 10   2.4 -Dinitrotoluene ND 10 <td>2-Nitrophenol</td> <td>ND</td> <td>20</td> <td>0</td>	2-Nitrophenol	ND	20	0
Benzoic acid     ND     50       bis(2-Chloroethoxy)methane     ND     10       1,2,4-Trichlorophenol     ND     10       Naphthalene     ND     10       Naphthalene     ND     10       4-Chloroaniline     ND     10       Hexachlorobutadiene     ND     10       4-Chloro-3-methylphenol     ND     10       2-Methylnaphthalene     ND     10       2-A.f. S-Trichlorophenol     ND     10       2-Chloronaphthalene     ND     10       2-Chloroaphthalene     ND     10       2.6-Dinitrooluene     ND     10       3-Nitroaniline     ND     20       4-A-Dinitrophenol     ND     20       4-A-Dinitrophenol	2,4-Dimethylphenol	ND	10	0
bis(2-Chloropethoxy)methane     ND     10       2,4-Dichlorophenol     ND     10       1,2,4-Trichlorobenzene     ND     10       Naphthalene     ND     10       4-Chloroaniline     ND     10       Hexachlorobutadiene     ND     10       4-Chloro-3-methylphenol     ND     10       2-Methylnaphthalene     ND     10       Hexachlorocyclopentadiene     ND     10       2,4,5-Trichlorophenol     ND     10       2-Nitroaniline     ND     10       2-Nitroaniline     ND     10       2-Nitroaniline     ND     10       2-Nitroaniline     ND     10       Acenaphthylene     ND     10       3-Nitroaniline     ND     20       Acenaphthene     ND     10       2,4-Dinitrophenol     ND     20       Jobenzofuran     ND     20       Jobenzofuran     ND     10       2,4-Dinitrophenol     ND     10       4-Nitroaniline     ND	Benzoic acid	ND	50	0
2,4-Dichlorophenol   ND   10     Naphthalene   ND   10     Naphthalene   ND   10     4-Chloroaniline   ND   10     Hexachlorobutadiene   ND   10     2-Methylphenol   ND   10     4-Chloro-3-methylphenol   ND   10     2-Methylphaphthalene   ND   10     2-Methylphaphthalene   ND   10     2-Methylphaphthalene   ND   10     2-Attrichlorophenol   ND   10     2.4,6-Trichlorophenol   ND   10     2-Nitroaniline   ND   10     2.4-Dinitrotoluene   ND   10     2.4-Dinitrophenol   ND   20     Acenaphthyle   ND   20     Acenaphthyle   ND   10     2.4-Dinitrophenol   ND   20     Acenaphthylene   ND   10     2.4-Dinitro	bis(2-Chloroethoxy)methane	ND	10	0
1,2,4-Trichlorobenzene   ND   10     Naphthalene   ND   10     4-Chloroaniline   ND   10     Hexachlorobutadiene   ND   10     4-Chloro-3-methylphenol   ND   10     2-Methylnaphthalene   ND   10     Hexachlorocyclopentadiene   ND   10     2,4,5-Trichlorophenol   ND   10     2.4,6-Trichlorophenol   ND   10     2-Nitroaniline   ND   10     2-Nitroaniline   ND   10     2-Nitroaniline   ND   10     Acenaphthylene   ND   10     3-Nitroaniline   ND   10     Acenaphthene   ND   10     2,4-Dinitrotoluene   ND   10     2,4-Dinitrophenol   ND   20     Dibenzofuran   ND   10     2,4-Dinitrophenol   ND   20     Dibenzofuran   ND   10     2,4-Dinitrophenol   ND   10     4-Nitroaniline   ND   10     4,6-Dinitro-2-methylphenol   ND   10	2,4-Dichlorophenol	ND	10	0
NaphthaleneND104-ChloroanilineND10HexachlorobutadieneND104-Chloro-3-methylphenolND102-MethylnaphthaleneND10ExachlorocyclopentadieneND102.4, 6-TrichlorophenolND102.4, 5-TrichlorophenolND102-ChloronaphthaleneND102-NitroanilineND102-NitroanilineND102.4, 6-TrichlorophenolND102-ChloronaphthaleneND102-ChloronaphthaleneND102-ChloronaphthaleneND102-NitroanilineND102.6-DinitrotolueneND102.6-DinitrotolueneND20AcenaphtheneND20AcenaphtheneND202.4-DinitrophenolND20DibenzofuranND20DibenzofuranND102.4-Chlorophenyl-phenyletherND10PiluoreneND104.6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND20N-Nitrosodiphenyl-phenyletherND104-SobniczeneND10HexachlorobenezeneND10HexachlorobenezeneND10PentachlorophenolND20N-Nitrosodiphenyl-phenyletherND10HoraceneND10HexachlorobenezeneND10	1,2,4-Trichlorobenzene	ND	10	0
4-chloroanilineND10HexachlorobutadieneND104-Chloro-3-methylphenolND102-MethylnaphthaleneND102-MethylnaphthaleneND202,4,5-TrichlorophenolND102-ChloronaphthaleneND102-ChloronaphthaleneND102-ChloronaphthaleneND102-NitroanilineND102,6-DinitrotolueneND103-NitroanilineND103-NitroanilineND20AcenaphtheneND103-NitroanilineND20AcenaphtheneND102,4-DinitrotolueneND102,4-DinitrotolueneND20AcenaphtheneND102,4-DinitrotolueneND102,4-DinitrotolueneND102,4-DinitrotolueneND102,4-DinitrotolueneND102,4-DinitrotolueneND101010204-Nitrosodiphenyl-phenyletherND104-Chlorophenyl-phenyletherND20N-NitrosodiphenylamineND10AcobenzeneND104-Bromophenyl-phenyletherND10PentachlorophenolND20N-NitrosodiphenylamineND10PentachlorophenolND20PhenanthreneND10PhenanthreneND10PhenanthreneND <td>Naphthalene</td> <td>ND</td> <td>10</td> <td>0</td>	Naphthalene	ND	10	0
HexachlorobutadieneND104-Chloro-3-methylphenolND102-MethylnaphthaleneND102.4,6-TrichlorophenolND102.4,5-TrichlorophenolND102-ChloronaphthaleneND102-ChloronaphthaleneND102-MitroanilineND102.4,6-TrichlorophenolND102-ChloronaphthaleneND102-ChloronaphthaleneND102-ChloronaphthaleneND102-ChloronaphthaleneND102-ChloronaphthaleneND102.4-DinitrotolueneND102.4-DinitrophenolND20AcenaphtheneND202.4-NitroanilineND204-NitrophenolND20DibenzofuranND10DiethylphthalateND10FluoreneND104-Chlorophenyl-phenyletherND20N-Nitrosodiphenyl-phenyletherND20N-NitrosodiphenylamineND20N-Nitrosodiphenyl-phenyletherND10HexachlorobenzeneND10PentachlorophenolND20N-NitrosodiphenolND20N-NitrosodiphenolND20N-NitrosodiphenolND20N-NitrosodiphenolND20N-NitrosodiphenolND20PentachlorophenolND20N-NitrosodiphenolND20<	4-Chloroaniline	ND	10	0
4-Chloro-3-methylphenolND102-MethylnaphthaleneND10HexachlorocyclopentadieneND202.4, 6-TrichlorophenolND102.4, 5-TrichlorophenolND102.4, 5-TrichlorophenolND102-NitroanilineND102-NitroanilineND102-NitroanilineND10AcenaphthyleneND103-NitroanilineND103-NitroanilineND103-NitroanilineND204-DinitroblueneND102.4-DinitrophenolND204-NitrophenolND204-NitrophenolND102.4-DinitrotolueneND102.4-DinitrotolueneND102.4-DinitrotolueneND102.4-DinitrotolueneND102.4-DinitrotolueneND102.4-DinitrotolueneND102.4-DinitrotolueneND102.4-DinitrotolueneND104-NitroanilineND204.6-Dinitro-2-methylphenolND20N-Nitrosodiphenyl-phenyletherND10AzobenzeneND104-Bromophenyl-phenyletherND10PentachlorophenolND20PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND	Hexachlorobutadiene	ND	10	0
2-MethylnaphthaleneND10HexachlorocyclopentadieneND202,4,6-TrichlorophenolND102,4,6-TrichlorophenolND102-ChloronaphthaleneND102-NitroanilineND20DimethylphthalateND10AcenaphthyleneND102,6-DinitrotolueneND103-NitroanilineND102,4-DinitrophenolND20JonerophthaleneND102,4-DinitrophenolND20AcenaphtheneND102,4-DinitrophenolND20JbenzofuranND102,4-DinitrotolueneND102,4-DinitrophenolND20JbenzofuranND102,4-DinitrophenolND102,4-DinitrophenolND102,4-DinitrophenolND102,4-DinitrophenolND102,4-DinitrophenolND104-Chlorophenyl-phenyletherND104-Storophenyl-phenyletherND10AzobenzeneND10AzobenzeneND104-RitrophenolND10AzobenzeneND10PentachlorophenolND10PentachlorophenolND10PhenanthreneND10DienabylphthalateND10PhenanthreneND10PhenanthreneND10Plouren	4-Chloro-3-methylphenol	ND	10	0
HexachlorofyclopentadieneND202,4,6-TrichlorophenolND102,4,5-TrichlorophenolND102-ChloronaphthaleneND102-NitroanilineND20DimethylphthalateND10AcenaphthyleneND103-NitroanilineND20AcenaphtheneND103-NitroanilineND20AcenaphtheneND202,4-DinitrophenolND20AcenaphtheneND202,4-DinitrophenolND20DibenzofuranND10DiethylphthalateND10DiethylphthalateND10PleuoreneND10VaronilineND20VA-Strophenyl-phenyletherND10PleuoreneND104-Chlorophenyl-phenyletherND10VA-Strophenyl-phenyletherND10N-NitrosodiphenylamineND10AzobenzeneND10A-Bromophenyl-phenyletherND10PentachlorophenolND20PhenanthreneND10PhenanthreneND10DienathreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND	2-Methylnaphthalene	ND	10	0
2.4,6-TrichlorophenolND102.4,5-TrichlorophenolND102-ChloronaphthaleneND102-NitroanilineND20DimethylphthalateND10AcenaphtyleneND102.4.5-TrictolueneND103-NitroanilineND20AcenaphtheneND20AcenaphtheneND20AcenaphtheneND20J.4-DinitrophenolND20J.4-DinitrophenolND20DibezofuranND20DibenzofuranND102.4-DinitrotolueneND10J.4-DinitrotolueneND10J.4-DinitrotolueneND10J.4-DinitrotolueneND104-Chlorophenyl-phenyletherND104-Chorophenyl-phenyletherND104-StroanilineND204.6-Dinitro-2-methylphenolND10AzobenzeneND10AzobenzeneND104-Bromophenyl-phenyletherND10PentachlorophenolND20PhenanthreneND10PhenanthreneND10Dina-butylphthalateND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneN	Hexachlorocyclopentadiene	ND	20	0
2,4,5-TrichlorophenolND102-ChloronaphthaleneND102-NitroanilineND20DimethylphthalateND10AcenaphtyleneND102,6-DinitrotolueneND103-NitroanilineND20AcenaphtheneND102,4-DinitrophenolND20AcenaphtheneND20AcenaphtheneND20AcenaphtheneND202,4-DinitrophenolND20DibenzofuranND102,4-DinitrotolueneND10DiethylphthalateND10FluoreneND104-Chlorophenyl-phenyletherND104,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND104-Bromophenyl-phenyletherND10HexachlorobenzeneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10Phenathrene <t< td=""><td>2,4,6-Trichlorophenol</td><td>ND</td><td>10</td><td>0</td></t<>	2,4,6-Trichlorophenol	ND	10	0
2-ChloronaphthaleneND102-NitroanilineND20DimethylphthalateND10AcenaphthyleneND102,6-DinitrotolueneND103-NitroanilineND20AcenaphtheneND102,4-DinitrophenolND20AcenaphtheneND204-NitrophenolND20DibenzofuranND20DiethylphthalateND102,4-DinitrotolueneND102,4-DinitrotolueneND10JiethylphthalateND10PlethylphthalateND104-Chlorophenyl-phenyletherND20N-NitrosodiphenylamineND20N-NitrosodiphenylamineND10AzobenzeneND104-Bromophenyl-phenyletherND10PentachlorobenzeneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10P	2,4,5-Trichlorophenol	ND	10	0
2-NitroanilineND20DimethylphthalateND10AcenaphthyleneND102,6-DinitrotolueneND103-NitroanilineND20AcenaphtheneND102,4-DinitrophenolND204-NitrophenolND20102,4-DinitrotolueneND2,4-DinitrotolueneND204-NitrophenolND201010102,4-DinitrotolueneND102,4-DinitrotolueneND101010102,4-DinitrotolueneND101010104-Chlorophenyl-phenyletherND104,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND104-Bromophenyl-phenyletherND10HexachlorobenzeneND10PhenathreneND20PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10PhenathreneND10 <td>2-Chloronaphthalene</td> <td>ND</td> <td>10</td> <td>0</td>	2-Chloronaphthalene	ND	10	0
DimethylphthalateND10AcenaphthyleneND102,6-DinitrotolueneND103-NitroanilineND20AcenaphtheneND102,4-DinitrophenolND204-NitrophenolND20DibenzofuranND102,4-DinitrotolueneND10DitenzofuranND102,4-DinitrotolueneND10FluoreneND10FluoreneND104-Chlorophenyl-phenyletherND20N-NitrosodiphenylamineND20AcebargeneND104,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10HexachlorobenzeneND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10DiethorobenzeneND10FluorophenolND20PhenanthreneND10PentachlorophenolND20PhenanthreneND10Di-n-butylphthalateND10Di-n-butylphthalateND10FluoreneND10	2-Nitroaniline	ND	20	0
AcenaphthyleneND102,6-DinitrotolueneND103-NitroanilineND20AcenaphtheneND102,4-DinitrophenolND204-NitrophenolND20JbbenzofuranND102,4-DinitrotolueneND102,4-DinitrotolueneND10DibenzofuranND101010102,4-DinitrotolueneND101010104-Chlorophenyl-phenyletherND104-Chlorophenyl-phenyletherND204,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND10HexachlorobenzeneND10HexachlorobenzeneND20PhenanthreneND10AnthraceneND10FluorantheneND10FluorantheneND10AnthraceneND10AnthraceneND10FluorantheneND10	Dimethylphthalate	ND	10	0
2,6-DinitrotolueneND103-NitroanilineND20AcenaphtheneND102,4-DinitrophenolND204-NitrophenolND20DibenzofuranND102,4-DinitrotolueneND10DiethylphthalateND10FluoreneND104-NitrosdiphenyletherND104-NitrosdiphenyletherND104-Chlorophenyl-phenyletherND204,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND104-Bromophenyl-phenyletherND104-Bromophenyl-phenyletherND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10ArthraceneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10Fluorene <td< td=""><td>Acenapĥtĥylene</td><td>ND</td><td>10</td><td>0</td></td<>	Acenapĥtĥylene	ND	10	0
3-NitroanilineND20AcenaphtheneND102,4-DinitrophenolND204-NitrophenolND20DibenzofuranND102,4-DinitrotolueneND102,4-DinitrotolueneND10DiethylphthalateND10FluoreneND104-Chlorophenyl-phenyletherND104,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10FluorantheneND10HexachlorobenzeneND10PhenanthreneND10FluorantheneND10PhenanthreneND10FluorantheneND10FluorantheneND10IorantheneND10	2,6-Dinitrotoluene	ND	10	0
AcenaphtheneND102,4-DinitrophenolND204-NitrophenolND20DibenzofuranND102,4-DinitrotolueneND10DiethylphthalateND10FluoreneND104-Chlorophenyl-phenyletherND204,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzbenzeneND104-Bromophenyl-phenyletherND10PentachlorophenolND10PentachlorophenolND20PhenanthreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluoreneND10FluorentheneND10	3-Nitroaniline	ND	20	0
2,4-DinitrophenolND204-NitrophenolND20DibenzofuranND102,4-DinitrotolueneND10DiethylphthalateND10FluoreneND104-Chlorophenyl-phenyletherND204,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND10HexachlorobenzeneND10PentachlorophenolND20AnthraceneND10PhenanthreneND10PhenanthreneND10PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	Acenaphthene	ND	10	0
4-NitrophenolND20DibenzofuranND102,4-DinitrotolueneND10DiethylphthalateND10FluoreneND104-Chlorophenyl-phenyletherND104-NitroanilineND204,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10PottachlorophenolND10PottachlorophenolND10PitnachlorophenolND10PhenanthreneND10PitnachlorophenolND10PitnachlorophenolND10PitnachleeND10PitnachleeND10Di-n-butylphthalateND10FluorantheneND10PitnachleeND10PitnachleeND10PitnachleeND10PitnachleeND10PitnachleeND10PitnachleeND10PitnachleeND10PitnachleeND10PitnachleeND10PitnachleeND10PitnachleeND10PitnachleeND10PitnachleeND10PitnachleeND10	2,4-Dinitrophenol	ND	20	0
DibenzofuranND102,4-DinitrotolueneND10DiethylphthalateND10FluoreneND104-Chlorophenyl-phenyletherND104-NitroanilineND204,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND104-Bromophenyl-phenyletherND10PentachlorophenolND10PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10	4-Nitrophenol	ND	20	0
2,4-DinitrotolueneND10DiethylphthalateND10FluoreneND104-Chlorophenyl-phenyletherND104-NitroanilineND204,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND104-Bromophenyl-phenyletherND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10IorantheneND10	Dibenzofuran	ND	10	0
DiethylphthalateND10FluoreneND104-Chlorophenyl-phenyletherND104-NitroanilineND204,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND104-Bromophenyl-phenyletherND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	2,4-Dinitrotoluene	ND	10	0
FluoreneND104-Chlorophenyl-phenyletherND104-NitroanilineND204,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND104-Bromophenyl-phenyletherND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	Diethylphthalate	ND	10	Ő
4-Chlorophenyl-phenyletherND104-NitroanilineND204,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND104-Bromophenyl-phenyletherND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	Fluorene	ND	1(	0
4-NitroanilineND204,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND104-Bromophenyl-phenyletherND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	4-Chlorophenvl-phenvlether	ND	1(	0
4,6-Dinitro-2-methylphenolND20N-NitrosodiphenylamineND10AzobenzeneND104-Bromophenyl-phenyletherND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	4-Nitroaniline	ND	20	- 0
N-NitrosodiphenylamineND10AzobenzeneND104-Bromophenyl-phenyletherND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	4,6-Dinitro-2-methvlphenol	ND	2.0	Ď
AzobenzeneND104-Bromophenyl-phenyletherND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	N-Nitrosodiphenvlamine	ND	1 (	Ď
4-Bromophenyl-phenyletherND10HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	Azobenzene	ND	1 (	<u>)</u>
HexachlorobenzeneND10PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	4-Bromophenvl-phenvlether	ND	1 (	<u>)</u>
PentachlorophenolND20PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	Hexachlorobenzene	ND	1 (	<u>)</u>
PhenanthreneND10AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	Pentachlorophenol	ND	2(	<u>)</u>
AnthraceneND10Di-n-butylphthalateND10FluorantheneND10	Phenanthrene	ND	1 (	- 0
Di-n-butylphthalate ND 10 Fluoranthene ND 10	Anthracene	ND	1 (	õ
Fluoranthene ND 10	Di-n-butylphthalate	ND	1 (	õ
	Fluoranthene	ND	10	D D

ND= Not Detected RL= Reporting Limit



	Se	mivol	atile O	rganics by	GC/1	MS
Lab #:	204017			Location:		Hanson Radum AOG#1
Client:	LFR Levine Fric	cke		Prep:		EPA 3520C
Project#:	001-09567-07			Analysis:		EPA 8270C
Type:	BLANK			Diln Fac:		1.000
Lab ID:	QC446868			Batch#:		139353
Matrix:	Water			Prepared:		06/17/08
Units:	ug/L			Analyzed:		06/18/08
Analyt	e	I	Result		RL	
Pyrene		ND			10	
Butylbenzylphthal	ate	ND			10	
3,3'-Dichlorobenz	laine	ND			20	
Benzo(a)anthracen	le	ND			10	
Chrysene		ND			10	
bis(2-Ethylnexyl)	pntnalate	ND			10	
Di-n-octylphthala	ite	ND			10	
Benzo(b)fluoranth	lene	ND			10	
Benzo(k)Iluoranth	lene	ND			10	
Benzo(a)pyrene		ND			10	
1ndeno(1,2,3-cd)p	pyrene	ND			10	
Dibenz(a,n)anthra	icene	ND			10	
Benzo(g,n,1)peryl	ene	ND			10	
Surroga	to	%REC	T.imite			
2-Fluorophenol		20	42-120			
Phenol-d5	Ş	22	46-120			
2.4.6-Tribromophe	nol	0	48-124			
Nitrobenzene-d5		97	55 - 120			
2-Fluorobiphenyl	ć	90	56 - 120			
Terphenyl-d14		19	28-120			



	Semivolatile O	rganics by GC/	MS
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 3520C
Project#:	001-09567-07	Analysis:	EPA 8270C
Matrix:	Water	Batch#:	139353
Units:	ug/L	Prepared:	06/17/08
Diln Fac:	1.000	Analyzed:	06/19/08

Type: BS			Lab ID:	QC4	46869		
Analyte		Spiked		Result	%REC	Limits	
Phenol		80.00		61.77	77	47-120	
2-Chlorophenol		80.00		65.62	82	53-120	
1,4-Dichlorobenzene		40.00		30.91	77	50-120	
N-Nitroso-di-n-propylamine		40.00		28.93	72	41-120	
1,2,4-Trichlorobenzene		40.00		30.82	77	54-120	
4-Chloro-3-methylphenol		80.00		62.41	78	55-120	
Acenaphthene		40.00		29.23	73	54-120	
4-Nitrophenol		80.00		72.22	90	46-120	
2,4-Dinitrotoluene		40.00		34.90	87	58-120	
Pentachlorophenol		80.00		83.99	105	53-120	
Pyrene		40.00		32.05	80	53-120	
Surrogate	%REC	Limits					
2-Fluorophenol	75	42-120					
Phenol-d5	80	46-120					
2,4,6-Tribromophenol	92	48-124					
Nitrobenzene-d5	91	55-120					
2-Fluorobiphenyl	80	56-120					
Terphenyl-d14	82	28-120					

Type:	BSD			Lab ID:	QC44	6870			
	Analyte		Spiked		Result	%REC	Limits	RPD	Lim
Phenol			80.00		61.21	77	47-120	1	22
2-Chlorop	henol		80.00		64.23	80	53-120	2	23
1,4-Dichl	orobenzene		40.00		28.56	71	50-120	8	27
N-Nitroso	-di-n-propylamine		40.00		28.85	72	41-120	0	24
1,2,4-Tri	chlorobenzene		40.00		29.55	74	54-120	4	25
4-Chloro-	3-methylphenol		80.00		63.94	80	55-120	2	21
Acenaphth	ene		40.00		29.79	74	54-120	2	21
4-Nitroph	enol		80.00		73.42	92	46-120	2	23
2,4-Dinit	rotoluene		40.00		35.82	90	58-120	3	25
Pentachlo	rophenol		80.00		85.61	107	53-120	2	27
Pyrene			40.00		32.66	82	53-120	2	23
	Surrogate	%REC	Limits						
2-Fluorop	henol	75	42-120						
Phenol-d5		80	46-120						
2,4,6-Tri	bromophenol	92	48-124						
Nitrobenz	ene-d5	90	55-120						
2-Fluorob	iphenyl	72	56-120						
Terphenvl	-d14 -	84	28-120						



	Semivolatile	Organics by GC	/MS
Lab #: 204017		Location:	Hanson Radum AOG#1
Client: LFR Levi	ne Fricke	Prep:	EPA 3520C
Project#: 001-0956	57-07	Analysis:	EPA 8270C
Type: BLANK		Diln Fac:	1.000
Lab ID: QC447290	)	Batch#:	139455
Matrix: Water		Prepared:	06/19/08
Units: ug/L		Analyzed:	06/20/08
Analyte	Result	RL	
N-Nitrosodimethylamine	ND	10	
Phenol	ND	10	
bis(2-Chloroethyl)ether	ND	10	
2-Chlorophenol	ND	10	
1,3-Dichlorobenzene	ND	10	
1,4-Dichlorobenzene	ND	10	
Benzyl alcohol	ND		
1,2-Dichlorobenzene	ND		
2-Metnylphenol	ND		
bis(2-Chloroisopropyl) et	iner ND		
4-metnyipnenoi			
N-Nitroso-di-n-propylamir	ie ND		
Hexachioroethane	ND		
Nitrobenzene			
2 Nitrophonal	ND		
2 A Dimethylphenel	ND	20	
Z, 4-Dimechyiphenoi Rongoig agid			
big(2-Chloroethoxy)methar		10	
2 4-Dichlorophenol		10	
1 2 4-Trichlorobenzene	ND	10	
Naphthalene	ND	10	
4-Chloroaniline	ND	10	
Hexachlorobutadiene	ND	10	
4-Chloro-3-methylphenol	ND	10	
2-Methylnaphthalene	ND	10	)
Hexachlorocyclopentadiene	e ND	20	)
2,4,6-Trichlorophenol	ND	10	)
2,4,5-Trichlorophenol	ND	10	
2-Chloronaphthalene	ND	10	
2-Nitroaniline	ND	20	
Dimethylphthalate	ND	10	
Acenaphthylene	ND	10	
2,6-Dinitrotoluene	ND	10	
3-Nitroaniline	ND	20	
Acenaphthene	ND	10	
2,4-Dinitrophenol	ND	20	
4-Nitrophenol	ND	20	
Dibenzoiuran	ND		
2,4-Dinitrotoluene	ND		
fluorene 4 Chlorophonyl phonyloth		10	
4-Chitorophenyi-phenyieche		20	
4 6-Dinitro-2-methylphone	עז עזי	20	
N-Nitrosodiphenylamine		20	
Azobenzene	ND	10	
4-Bromophenvl-phenvlether	^ ND	10	
Hexachlorobenzene	ND	10	
Pentachlorophenol	ND	20	)
Phenanthrene	ND	10	)
Anthracene	ND	10	)
Di-n-butylphthalate	ND	10	)
Fluoranthene	ND	10	

ND= Not Detected RL= Reporting Limit

Page 1 of 2



		Semivo	Latile C	rganics by	GC/1	MS
Lab #:	204017			Location:		Hanson Radum AOG#1
Client:	LFR Levine F	'ricke		Prep:		EPA 3520C
Project#:	001-09567-07			Analysis:		EPA 8270C
Type:	BLANK			Diln Fac:		1.000
Lab ID:	QC447290			Batch#:		139455
Matrix:	Water			Prepared:		06/19/08
Units:	ug/L			Analyzed:		06/20/08
Analy	te		Result		RL	
Pyrene	_	NI	)		10	
Butylbenzylphtha	late	NI	)		10	
3,3'-Dichloroben	zidine	NI	)		20	
Benzo(a)anthrace	ne	NI	)		10	
Chrysene		NL	)		10	
bis(2-Ethylhexyl	)phthalate	NL	)		10	
Di-n-octylphthal	ate	NL	)		10	
Benzo(b)fluorant	hene	NL	)		10	
Benzo(k)fluorant	hene	NL	)		10	
Benzo(a)pyrene		NL	)		10	
Indeno(1,2,3-cd)	pyrene	NL	)		10	
Dibenz(a,h)anthr	acene	NL	)		10	
Benzo(g,h,1)pery	lene	NL	)		10	
Gummorr		%DEC	Timita			
2 Elucrophonol	ale	76	<u> </u>			
Dhonol_d5		82	46-120			
2 4 6 - Tribromorb	onol	02 Q5	40-120			
Nitrobongono de	.C110 T	05	55_124			
2-Eluorobinhonyl		90	55 - 120			
Z-FILOLODIPHENYL Torphonyl -d14		90	30 - 120			
TET buen A ter		00				



	Semivolatile O	rganics by GC/	MS
Lab #:	204017	Location:	Hanson Radum AOG#1
Client:	LFR Levine Fricke	Prep:	EPA 3520C
Project#:	001-09567-07	Analysis:	EPA 8270C
Matrix:	Water	Batch#:	139455
Units:	ug/L	Prepared:	06/19/08
Diln Fac:	1.000	Analyzed:	06/20/08

Type: BS			Lab ID:	QC44	17291		
Analyte		Spiked		Result	%REC	Limits	
Phenol		80.00		65.07	81	47-120	
2-Chlorophenol		80.00		65.13	81	53-120	
1,4-Dichlorobenzene		40.00		34.35	86	50-120	
N-Nitroso-di-n-propylamine		40.00		33.96	85	41-120	
1,2,4-Trichlorobenzene		40.00		34.91	87	54-120	
4-Chloro-3-methylphenol		80.00		69.41	87	55-120	
Acenaphthene		40.00		31.48	79	54-120	
4-Nitrophenol		80.00		63.53	79	46-120	
2,4-Dinitrotoluene		40.00		34.75	87	58-120	
Pentachlorophenol		80.00		67.18	84	53-120	
Pyrene		40.00		33.58	84	53-120	
Surrogate	%REC	Limits					
2-Fluorophenol	81	42-120					
Phenol-d5	84	46-120					
2,4,6-Tribromophenol	101	48-124					
Nitrobenzene-d5	91	55-120					
2-Fluorobiphenyl	89	56-120					
Terphenyl-d14	90	28-120					

Type: BSD			Lab ID:	QC4	47292									
Analyte		Spiked		Result	%REC	Limits	RPD	Lim						
Phenol		80.00		64.18	80	47-120	1	22						
2-Chlorophenol		80.00		64.46	81	53-120	1	23						
1,4-Dichlorobenzene		40.00		35.92	90	50-120	4	27						
N-Nitroso-di-n-propylamine		40.00		33.55	84	41-120	1	24						
1,2,4-Trichlorobenzene		40.00		36.44	91	54-120	4	25						
4-Chloro-3-methylphenol		80.00		68.48	86	55-120	1	21						
Acenaphthene		40.00		31.10	78	54-120	1	21						
4-Nitrophenol		80.00		63.43	79	46-120	0	23						
2.4-Dinitrotoluene		40.00		34.67	87	58-120	õ	25						
Pentachlorophenol		80 00		68 88	86	53 - 120	ĩ	27						
Pyrene		40.00		34.10	85	53-120	2	23						
Surrogate	%REC	Limits												
2-Fluorophenol	80	42-120												
Phenol-d5	82	46-120												
2,4,6-Tribromophenol	100	48-124												
Nitrobenzene-d5	88	55-120												
2-Fluorobiphenyl	87	56-120												
Terphenyl-d14	89	28-120												
	<u> </u>		PROJEC	T NO.:	SECTION N	0.:	DĄT	E:,, ,	~	SAMPLE	R'S INITI	ALS: J S	SERIAL NO .:	
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Emeryville, Cali	fornia 946	08.	PROJEC	T NAME:	5.414A		SAN	PLER (Sig	natore):	tondy	sh.	n X	IN: 40	J444
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SAMPLE ID.	DATE	TIME	20 NO.	Goil Nater	1.2 <sup>1/</sup> .2 <sup>1/</sup> /	&``*\$	E. JOR W	er Chile	Ŏ,Ą	5/5	N/ 215/	*/	624 List	
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MPLE RECEIPT: Cooler Temp:	METHOD	OF SHIPMENT:	RELING	UISHED BY:	Gh	(18	RELINQUISI	IED BY:			2 RE			(DATE)
Intact Cold	LAB REPORT NO .:		(SIGNATURE) (DATE)				(SIGNATURE) (DATE)				(SI	IGNATURE)		(DATE)
				ENTRAME	UYADE 18	13	(PRINTED N	AME)		(TIME)	(P	RINTED NAME)		(TIME)
reservative Correct?	FAX COC	CONFIRMATION T		R INC.										
]Yes   No   N/A	KATE	NSchlier	NENICOMP	ANY		F.	(COMPANY)	BY:			2 RI	ECEIVED BY (LA	ABORATORY):	
NALYTICAL LABORATORY:	FAX RESULTS TO:		RECEIVED BY: (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE) (BAILE)				(SIGNATURE) (DATE)					IGNATURE)		(DATE)
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COOLER RECEIPT CHECKLIST	pkins, Ltd.
Login #204017Date Received6/16/08Number of coolers2ClientUPKProjectHONSONPLOUNG	2
Date Opened 6/16/08 By (print) M.VILLANBLE (sign) Med / Le Date Logged in 6-17-08 By (print) F Nichols (sign)	h
1. Did cooler come with a shipping slip (airbill, etc)?	es 🎪
2A. Were custody seals present? □ YES (circle) on cooler on samples How manyNameDate	
Bubble Wrap Foam blocks Bags None	
Cloth material Cardboard Styrofoam Paper towel 7. If required, was sufficient ice used? Samples should be < or = 6°C	s NO N/A
Type of ice used: $\square$ Wet $\square$ Blue $\square$ None Temp(°C)	
Samples Received on ice & cold without a temperature blank	
□ Samples received on ice directly from the field. Cooling process had begun	
<ul> <li>8. Were Method 5035 sampling containers present?</li></ul>	NO NO NO NO NO NO NO NO NO N/A S NO
<ul> <li>8. Were Method 5035 sampling containers present?</li></ul>	NO NO NO NO NO NO NO NO NO N/A S NO
<ul> <li>8. Were Method 5035 sampling containers present?</li></ul>	NO NO NO NO NO NO N/A NO N/A S NO
<ul> <li>8. Were Method 5035 sampling containers present?</li></ul>	S NO NO NO NO NO NO NO NO N/A S NO
<ul> <li>8. Were Method 5035 sampling containers present?</li></ul>	S NO NO NO NO NO NO NO NO NO NO N/A S NO
<ul> <li>8. Were Method 5035 sampling containers present?</li></ul>	S NO NO NO NO NO NO NO NO NO NO NO NO NO N
<ul> <li>8. Were Method 5035 sampling containers present?</li></ul>	S NO NO NO NO NO NO NO NO NO NO NO NO NO N

 SOP Volume:
 Client Services
 Rev. 5 Number 1 of 3

 Section:
 1.1.2
 Effective: 19 May 2008

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