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LAND TREATMENT UNIT

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NEW MEXICO
ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau

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DAVE MARTIN
Secretary

RAJ SOLOMON, P.E.
Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

April 26, 2011

Mr. Ed Riege
Environmental Manager
Western Refining, Southwest Inc., Gallup Refinery
Route 3, Box 7
Gallup, New Mexico 87301

RE: APPROVAL
CLOSURE CERTIFICATION LAND TREATMENT UNIT
WESTERN REFINING COMPANY SOUTHWEST INC., GALLUP REFINERY
EPA ID # NMD000333211
HWB-WRG-10-006

Dear Mr. Riege:

The New Mexico Environment Department (NMED) has completed its review of the *Closure Certification Land Treatment Unit* (Certification), dated April 4, 2011, submitted on behalf of Western Refining Company Southwest Inc., Gallup Refinery (the Permittee). The Certification meets the requirements of closure certification for the permitted land treatment unit at the facility and NMED hereby issues this approval.

If you have questions regarding this letter please contact Kristen Van Horn of my staff at 505-476-6046.

Sincerely,

John E. Kieling
Program Manager
Permits Management Program
Hazardous Waste Bureau

cc: D. Cobrain NMED HWB
K. Van Horn, NMED HWB
C. Chavez, OCD

File: Reading File and WRG 2011 File
HWB-WRG-10-006

December 23, 2010

Mr. James P. Bearzi
Chief – Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

RE: Revised Land Treatment Unit Nine Year Sampling Event Report
Western Refining Company Southwest Inc., Gallup Refinery
EPA ID # NMD000333211 HWB-WRG-10-005

Dear Mr. Bearzi:

Western Refining Company's Gallup Refinery (Gallup) is re-submitting the Nine-Year Sampling Event Report for Gallup's Land Treatment Unit (LTU). The revised report is attached to this correspondence. The original report was submitted to the New Mexico Environment Department (NMED) in March 2010. This submittal included Trihydro's *Land Treatment Unit Soil Sampling Report*, dated January 5, 2010, and a binder including the soil and groundwater laboratory reports.

NMED issued a *Notice of Disapproval, Land Treatment Unit Post Closure Sampling Event, Western Refining Company Southwest Inc., Gallup Refinery EPA ID # NMD000333211 HWB-WRG-10-005* (LTU NOD), on August 18, 2010. NMED provided four comments in the LTU NOD. NMED's first three comments request that the Report be updated to include additional information. Gallup agreed to update the Report per NMED's first three comments in a response letter dated September 9, 2010.

In the fourth LTU NOD comment, NMED disapproved of the soil sampling procedures utilized to collect samples for volatile organic compounds (VOCs) at some of the LTU sample locations and requested re-sampling. On December 8, 2009, NMED was contacted via telephone to discuss alternate sampling procedures. During this telephone conversation, NMED verbally approved an alternate sampling procedure (the use of a hand auger as opposed to a hollow stem auger). At that time, NMED was not aware that using the hand auger would require an intermediate step of extracting soil onto clean plastic sheeting prior to placing it into the sample container. NMED generally does not approve of this step as it can potentially increase volatilization of VOCs. However, during conservations between Gallup, NMED, and Trihydro on September 1, 2010, NMED agreed that re-sampling will not be necessary for the December 2009 event.

NMED Comments 1 through 3 are presented below. Red text has been added to indicate where each comment has been addressed in the Revised Report.

Comment 1

The Permittee's submittal included a report from Trihydro (*Land Treatment Unit Soil Sampling Report*, dated January 5, 2010) and a binder that includes soils and groundwater sampling laboratory reports. The Permittee must provide a narrative of the soil sampling and monitoring well sampling (e.g., the procedures [Section 2 for soil, Section 3 for groundwater], investigation derived waste (IDW) management [Section 6], etc.), any deviations from the requirements listed in the Permit [Section 5], and the sampling results [Section 7]. The Permittee must revise the Report to include this information.

Comment 2

The Permittee does not discuss the soil sampling laboratory analytical results that are included in the binder. The Permittee must revise the Report to discuss the Zone of Influence and the Treatment Zone soil sampling [Section 7] and compare the sampling results to New Mexico Soil Screening Levels, background levels and previous results (See Appendix E, Section .2 (Background Values) of the Permit) [Tables 1 and 2, Section 7]. The Permittee must revise the report to discuss these data.

Comment 3

The Binder includes laboratory reports; however, the Permittee does not discuss groundwater monitoring or the groundwater sampling results. The Permittee must revise the Report to discuss the groundwater sampling (e.g., methods [Section 3], procedures [Section 3], deviations [Section 5]), and groundwater sampling results [Section 7], and perform a statistical analysis as required by Section E.2.6 (Statistical Procedures) and Section 5.8 (Statistical Evaluation of Laboratory Data) of the Permit [Section 8].

Per the LTU NOD, Gallup was to address all comments and submit a revised report to NMED on or before December 10, 2010. However, an extension request was submitted to NMED on December 7, 2010 and December 23, 2010 was determined to be the new deadline of revised report. NMED requested that the revised report be submitted "with a response letter that details where all revisions have been made, cross referencing NMED's numbered comments." This cover letter has been prepared to satisfy NMED's request. In addition, NMED requested "an electronic version of the revised Plan identifying where all changes have been made in red-line strikeout format." The original report only contained three pages of text describing the soil sampling event. NMED revisions were not requested because of inaccuracies with the original text, but rather because NMED believed that the original report lacked required information. The Revised Report, which contains more than 20 pages of text, has been updated to include this information. Since the large majority of the text of the Revised Report is new, Gallup believes that it is not appropriate to provide a red-line strikeout version of the Report as the large majority of the Revised Report would be red-lined. Gallup will provide an electronic version of the report to NMED on request.

If you have any questions, or if we can be of further service to you, please do not hesitate to call me at (505) 722-0217.

Sincerely,
Western Refining Company

Ed Riege
Environmental Manager

697-039-001

Attachments

cc: J. Kieling, NMED HWB
D. Cobrain NMED HWB
H. Monzeglio NMED HWB
K. Van Horn NMED HWB
C. Chavez, OCD
L. Morgan, Western Refining
R. Mitchell, Trihydro

File: Reading File and WRG 2010 File HWB-WRG-10-005

LAND TREATMENT UNIT

NINE YEAR SAMPLING EVENT REPORT

WESTERN REFINING COMPANY

GALLUP REFINERY, GALLUP, NEW MEXICO

December 23, 2010

Project #: 697-039-001

SUBMITTED BY: Trihydro Corporation

1252 Commerce Drive, Laramie, WY 82070

Trihydro CORPORATION

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EXECUTIVE SUMMARY

Western Refining Company's Gallup Refinery (Gallup) submitted a *Land Treatment Unit Post Closure Sampling Event* report to the New Mexico Environment Department (NMED) in March 2010. NMED issued a Notice of Disapproval (NOD) to the *Land Treatment Unit Post Closure Sampling Event* report on August 18, 2010. The NOD contained four comments which NMED requested to have addressed prior to accepting the report. The first three comments requested that additional information be included in the report. The fourth comment requested that Gallup resample the LTU due to the use of unapproved sampling procedures. NMED was contacted on September 1, 2010, and the justification of the sampling procedures was discussed. NMED confirmed that re-sampling would not be required via email on September 1, 2010. Further information regarding Comment #4 and re-sampling is provided in Section 5.1 of this report. In a letter dated September 14, 2010, Gallup agreed to update the report with the additional information requested in NMED's first three comments. The additional information requested by NMED is included in this report.

This Nine-Year LTU Post Closure Monitoring Report is organized as follows:

Section 1 Introduction

Section 2 Soil Sampling

Section 3 Groundwater Sampling

Section 4 Decontamination Procedures

Section 5 Deviations from Approved Plan

Section 6 Investigation Derived Waste

Section 7 Statistical Evaluation of Analytical

Section 8 Results/Regulatory Criteria

Section 9 Schedule

Portions of this report were obtained from the following Documents:

- Land Treatment Unit Soil Sampling Report, Western Refining, Gallup Refinery, Gallup, New Mexico (January 5, 2010)
- Part A and Part B Post Closure Permit Application, Volume I, II, III, Land Treatment Unit (February 2010)
- Annual Groundwater Monitoring Report: Gallup Refinery -2009, Western Refining, Gallup, New Mexico (August 2010)

1.0 INTRODUCTION

The Land Treatment Unit (LTU) located at Western Refining Southwest's Gallup Refinery (Gallup) was operated from 1980 through 2000 to assist in the degradation, transformation, or immobilization of hazardous wastes generated at the facility. Gallup facility maps are included as Appendix A. The LTU received acceptable hazardous waste from 1980 to 1990. From 1990 to 1993, non-hazardous waste was treated at the LTU. No waste has been added to the LTU since 1993, and the LTU was officially closed in 2000. Per the Part A and Part B Post Closure Permit Application, Volume I, II, III, Land Treatment Unit, dated February 2010 (RCRA Permit), Gallup was required to conduct a nine-year post closure sampling event of the LTU's Zone of Incorporation (ZOI) soils, Treatment Zone (TZ) soils, and groundwater beneath the LTU. Soil sampling was conducted by Trihydro Corporation (Trihydro) in December 2009. Groundwater sampling was conducted by Gallup personnel in March 2010. This report is being submitted to the NMED to document and present the results of the nine-year post closure sampling event.

2.0 SOIL SAMPLING

The LTU soil sampling was conducted during the week of December 7, 2009. Unless noted otherwise, soil sampling was conducted in accordance with Gallup's RCRA Permit.

2.1 PRE-SAMPLING ACTIVITIES

Per the Post-Closure Monitoring Plan, the LTU cells were divided into 6 foot by 6 foot grids. A total of 6 of the 8,625 grids were selected for sampling utilizing a random integer generator provided by Random.Org. Documentation of the random integer selection is provided as Appendix B. The Post-Closure Monitoring Plan requires that a minimum of one sample location be located within each LTU cell. Therefore, sets of random integers were generated until at least one sample location was located within each of the three LTU cells. A map illustrating the sample locations is provided as Figure 1.

Trihydro personnel arrived on site on December 8, 2009. Sample locations were located by Trihydro personnel utilizing a measuring tape and the corners of the berms dividing the LTU cells as reference points. Sample locations were staked and photographed. Photographs of the sample locations are included as photos 1 through 6 of the photo documentation provided as Appendix C.

2.2 SOIL SAMPLING PROCEDURES

ZOI samples were collected at five of the six sample locations utilizing a hand auger on December 8 and 9, 2009. At location 7544, the hand auger was not able to be advanced deep enough to collect the ZOI sample due to the presence of gravel. This sample was collected using a direct push drill rig as described below. A photograph of the hand auger and stainless steel sleeves is provided as photo 7 in Appendix C. The auger and the sleeves were decontaminated between each sample interval and location. A photograph of the decontamination station is provided as photo 8 of Appendix C.

In accordance with the Post-Closure Monitoring Plan, ZOI samples were to be collected from approximately 1 foot beneath the topsoil-ZOI surface (interface). The topsoil-ZOI interface was identified at depths ranging from 8 to 12 inches below ground surface (bgs). Therefore, ZOI samples were collected from approximately 2 feet bgs. The hand auger was advanced to the desired sample interval and samples were extracted onto clean plastic sheeting to allow for sample collection as illustrated in photos 9 through 11 in Appendix C. Exact sample depths varied from location to

location due to the varying depth of the topsoil-ZOI interface. Sample depths are documented on the Field Boring Logs provided as Appendix D.

The TZ is identified by the Post-Closure Permit as the top 5 feet of soil. TZ samples were collected from approximately 5 feet bgs. Exact sample depths are documented on the Field Boring Logs provided as Appendix D.

Trihydro personnel attempted to collect TZ samples utilizing a manual slide-hammer sampling probe. However, the sampling probe could not be advanced deep enough to collect the TZ samples due to refusal. Plans were made with Enviro-Drill of Albuquerque, New Mexico to conduct the soil sampling utilizing a pickup truck mounted direct push rig. This type of rig is capable of accessing locations that the larger hollow-stem auger drill rig cannot. Samples were collected on December 11, 2009 utilizing 2-foot split core barrels advanced with the direct push drill rig. Split core barrels were decontaminated between each sample interval and location. Both 2.5-inch and 1.5-inch core barrels were utilized. The 2.5-inch core barrel was preferred as it is able to collect a larger volume of soil. However, at some locations, refusal was met with the 2.5-inch core barrel before the desired sample interval was encountered. At these locations, the 1.5-inch core barrel was used. Photographs of the core barrels are provided as photos 12 and 13 in Appendix C. The ZOI sample at location 7544, which could not be collected with the hand auger, was also collected using the direct push drill rig.

3.0 GROUNDWATER SAMPLING

Gallup personnel conducted annual groundwater sampling in July 2009. Gallup initially intended to use the data collected during this event for the nine-year LTU post-closure sampling event. However, NMED requested that a second set of samples be collected to represent the nine-year sampling event. Therefore, Gallup re-sampled the LTU wells in March 2010.

Per Gallup's RCRA Permit, groundwater samples were obtained from the Chinle Slope Wash and the Sonsela Aquifer as part of the nine-year LTU post closure sampling. The Chinle Slope Wash is a water-bearing unit that lies above the Sonsela Aquifer. The Sonsela is the geologic unit that meets the regulatory definition of the uppermost aquifer and is required to be monitored in accordance with 20 New Mexico Administrative Code (NMAC) 4.1, subpart V, 264. Although the Chinle Slope Wash does not meet the regulatory definition of an aquifer that must be monitored, as part of early detection monitoring, Gallup samples groundwater from the Chinle Slope Wash to be protective of human health and the environment. The Chinle Slope Wash is sampled using one down-gradient stainless steel, shallow monitoring well (SMW-4).

Monitoring Wells MW-1, MW-2, MW-4, and MW-5 are completed in the Sonsela Aquifer, which is considered the uppermost aquifer beneath the LTU. Monitoring Wells MW-1, MW-2, and MW-5 are considered point-of-compliance (POC) wells located down-gradient of the LTU and MW-4 is located up-gradient of the LTU. The locations of the LTU monitoring wells are shown on Figure 2.

3.1 GROUNDWATER SAMPLING PROCEDURES

Each monitoring well is gauged for depth to water measurement to determine the amount of water to purge. Using dedicated pumps, three well volumes are purged from each well and the wells are checked for stabilization of field parameters prior to sample collection. If water level is at a minimum or if the well has a low recharge rate, the well is purged dry, allowed to recharge, and samples are collected within 24 hours of purging.

The dedicated pumps are equipped with flow rate controllers. To purge and sample the wells, the flow rate controller is started at a slow rate and gradually increased until water is discharged. After three well volumes are purged, field water quality measurements are collected. Field water quality measurements must stabilize for a minimum of three consecutive readings taken at 2 to 5 minute intervals prior to sampling. Stabilization limits are: dissolved oxygen

(DO) (10%), Specific Conductance (3%), Temperature (3%), pH (+/- 10 millivolts). After stabilization is achieved, samples are collected.

The following procedures are used when collecting/shipping samples.

- Neoprene, nitrile, or other protective gloves are worn when collecting samples. New disposable gloves are used to collect samples at each sample point.
- Samples are transferred into clean sample containers supplied by the analytical laboratory. The sample container is clearly marked and labeled.
- Labeled samples are sealed and placed in a cooler with ice until they are shipped via UPS RED, FED EX Overnight, or personally delivered to the analytical laboratory.
- Standard chain-of-custody (CoC) procedures are followed for all samples collected.
- The CoC form and sample request form are shipped inside the sealed storage container to be delivered to the laboratory, signed and dated. Copies of all CoC forms generated are kept on site.

Groundwater sampling activities, including observations and field procedures, are recorded for each monitoring well maintained at Gallup. Groundwater Sampling Logs include the following information:

- Well ID/ Evaporation pond location/ Outfall
- Date
- Start and finish sampling time
- Field team members, including visitors
- Weather conditions
- Daily activities and times conducted
- Observations
- Record of samples collected with sample designations

- Equipment used and calibration records, if appropriate
- An inventory of the waste generated

The LTU nine-year sampling event was conducted on March 1 and 2, 2010. Well SMW-4 was purged until the fluid level was below the pump inlet. The well was allowed to recharge and samples were collected. The remaining four LTU wells (MW-1, MW-2, MW-4, and MW-5) produced sufficient water to allow for sample collection as described above. Groundwater Sampling Logs for the LTU nine-year monitoring event are included as Appendix E.

3.2 GROUNDWATER SAMPLING EQUIPMENT

As mentioned above, each of the five LTU wells is equipped with a dedicated pump and flow rate controller. The pump and controller are used to purge and sample the wells.

The instrument used to identify the water level is a Heron Instrument 100 feet DipperT electric water depth tape complying with US GGG-T-106E, EEC, Class II. This instrument measures water level by emitting different tones for hydrocarbon and water. A steady audible tone indicates water and an erratic audible tone indicates hydrocarbons.

Parameter Instrument – YSI Model 556, Multi Probe System, is a hand held unit that is used to measure DO, conductivity, temperature, and optional pH and oxygen reduction potential (ORP). This instrument also includes a flow cell. The back-up instrument is an IQ Scientific Instrument, Model IQ180GLP which measures pH, DO, conductivity and temperature.

Field equipment parameter instruments are calibrated to known standards, in accordance with the manufacturers' recommended schedules and procedures. Calibration checks are conducted before use and the instruments are recalibrated if necessary. Calibration of equipment is noted in the daily field logs.

If field equipment becomes inoperable, a properly calibrated replacement instrument is used in the interim. Instrumentation used during a sampling event is recorded in the daily field logs.

4.0 DECONTAMINATION PROCEDURES

In order to prevent cross-contamination, field equipment that comes into contact with water or soil is decontaminated before each sampling location. The decontamination procedure consists of rinsing/washing the equipment with an Alconox (or equivalent) detergent water mixture followed by two rinses before use at another sample location.

5.0 DEVIATIONS FROM APPROVED PLAN

The nine-year post closure monitoring at the LTU was conducted in general accordance with Gallup's RCRA Permit and Post Closure Monitoring Plan. Deviations from the procedures outlined in these documents are discussed in this section.

5.1 SOIL SAMPLING DEVIATIONS

The following is a summary of soil sampling deviations that were associated with the nine-year post closure monitoring:

- The Post-Closure Monitoring Plan requires that a minimum of one sample location be located within each of the two LTU cells. However, there are currently three LTU cells. Therefore, sets of random integers were generated until at least one sample location was located within each of the three LTU cells.
- According to the Post-Closure Monitoring Plan, LTU soil samples were to be collected utilizing a hollow-stem auger drill rig equipped with a 5-foot, 2.5-inch diameter split core barrel advanced with the lead auger. However, upon arrival, Trihydro was informed by Gallup that accessing the soil sampling locations with a hollow-stem auger drill rig would not be possible due to muddy conditions caused by recent precipitation events. NMED was contacted by Trihydro on December 8, 2009 to discuss possible alternative sampling procedures. NMED confirmed that collecting samples utilizing a hand auger equipped with stainless steel sleeves or a manual slide-hammer sampling probe would be acceptable.
- A manual hand auger was used to collect some of the soil samples while awaiting the arrival of the direct push drill rig. The compacted soil was tightly packed into the auger necessitating the use of a ram rod to extract the soil from the auger onto clean plastic sheeting prior to placing the soil in the sample containers. NMED's NOD Comment 4 expressed disapproval of this sampling methodology as the intermediate step of extracting the soil from the auger prior to placing the soil in the sample containers could potentially increase volatilization of VOCs. However, since Trihydro was informed that the use of a hand auger was acceptable and since VOCs in historic LTU samples have generally been low or non-detect (ND), NMED agreed that re-sampling would not be required for this event in an email dated September 1, 2010. Gallup will utilize a hollow stem auger drill rig or consult with NMED to determine another appropriate sampling device prior to the next sampling event.

5.2 GROUNDWATER SAMPLING DEVIATIONS

LTU wells MW-1, MW-2, MW-4, MW-5, and SMW-4 were originally sampled in July 2009 as part of Gallup's annual groundwater sampling event. Gallup intended to use this data for the nine-year LTU post closure sampling event. However, NMED requested that Gallup re-sample the LTU wells to obtain a new set of data specific to the nine-year post closure event. Therefore, NMED re-sampled the five LTU wells in March 2010. No other deviations from the RCRA Permit and Post Closure Monitoring Plan were noted.

6.0 INVESTIGATION DERIVED WASTE

Disposal of Investigation Derived Waste (IDW) associated with the nine-year LTU soil and groundwater sampling events is discussed in the following two subsections.

6.1 IDW GENERATED DURING SOIL SAMPLING

Excess soil generated during the LTU soil sampling was thin spread in the LTU around the location from which it was collected. Boreholes were backfilled with bentonite chips. Other wastes associated with sampling, including personal protective equipment (PPE), rinse water from decontamination, and other sampling-associated disposables were disposed of appropriately at the refinery. PPE and other disposables were disposed of in on-site dumpsters that are designated for solid waste to be disposed of at an off-site municipal waste landfill. Rinse water from decontamination was emptied into the refinery's process sewer which is part of the refinery's waste water treatment system.

6.2 IDW GENERATED DURING GROUNDWATER SAMPLING

IDW generated during the groundwater sampling event included purge water, decontamination water, excess sample material, PPE, and disposable sampling equipment. Purge and decontamination water generated during sampling and decontamination activities is temporarily stored in a labeled 55-gallon drum(s) until disposed of in the refinery waste water treatment system upstream of the American Petroleum Institute (API) separator. PPE and other disposables were disposed of in on-site dumpsters that are designated for contaminated waste to be disposed of at an off-site municipal waste landfill.

7.0 RESULTS/REGULATORY CRITERIA

LTU soil and groundwater samples were analyzed for the Modified Skinner List included as Tables 2A through 2D of the Post Closure Monitoring Plan and provided as Appendix F to this report. Analytical lab reports and CoC's are provided as Appendix G.

7.1 SOIL SAMPLING RESULTS

LTU soil sampling results may be used to verify the continued degradation of hazardous constituents and indicate whether or not hazardous constituents may leach into groundwater beneath the LTU. In addition to the statistical evaluation provided in Section 8, QA/QC samples were collected, a Tier II Data Validation was performed, and results were compared to NMED Soil Screening Levels, maximum characterization soil concentrations (1998 and 1999), and 1997 background concentrations (where applicable).

7.1.1 SOIL QAQC SAMPLING

Quality Assurance/Quality Control (QA/QC) samples were collected in accordance with the Section 4 of the Post-Closure Permit. QA/QC samples included a blind duplicate, a matrix spike and matrix spike duplicate (MS/MSD), a field blank, an equipment blank, and a trip blank per each ice chest. As noted on the Field Boring Logs provided as Appendix D, the blind duplicate was collected from the ZOI interval at location 4139 and the MS/MSD was collected from the ZOI interval at location 8334. The equipment blank was collected by pouring distilled water through one of the stainless steel hand auger sleeves. Trip blanks and the field blank were also collected with distilled water.

7.1.2 SOIL DATA VALIDATION

Trihydro performed a Tier II Data Validation on the 2009 nine-year post closure monitoring event soil data. The laboratory data reports associated with the sampling events were reviewed to determine method compliance, precision, and accuracy. Review of the analytical report generated by Hall Environmental Analysis Laboratory, Albuquerque, New Mexico and Anatek Labs, Inc., Moscow, Idaho indicated that QA/QC protocol for analyses of the soil samples were met, with no exceptions. The data met acceptable levels of precision, accuracy, and completeness.

Data points were flagged or qualified due to high surrogate recoveries or high RPD values. A data qualification flag of 'J' indicates an estimated detection value and a 'UJ' flag indicates an estimated reporting limit for non-detect (ND)

results. Data points that are flagged 'J' or 'UJ' indicates that the possible presence or absence of the analyte could be verified at an approximated value; therefore, estimated data is valid for use. A total of 14 data points were qualified in the two data sets. The data sets were 100 percent complete. Data Validations are presented as Appendix H.

7.1.3 NMED SCREENING COMPARISON

A summary of the 2009 LTU soil data is provided as Table 1. Applicable screening standards are also provided on this table for comparison. As shown on Table 1, during the 2009 nine-year sampling event, Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), metals, Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) were detected in LTU soil samples. Screening level exceedances are also shown on Table 1. Analytes not shown on Table 1 were not detected during the nine-year soil sampling event.

Gallup considered the LTU 1998 and 1999 soil characterization sampling events to determine maximum characterization event concentrations. Exceedances of the maximum characterization event concentrations (shown on Table 1) may be due to the relatively limited data set that was considered along with natural variations in soil quality. Gallup does not believe that sufficient data exists to suggest that these exceedances are caused by analyte concentration increases.

Benzo(a)pyrene was the only analyte to exceed NMED soils screening levels. Benzo(a)pyrene was detected in four ZOI samples at concentrations ranging from 0.701 mg/kg to 12.1 mg/kg and one TZ sample at a concentration of 0.237 mg/kg. The NMED Industrial/Occupational Soil Screening Level for benzo(a)pyrene is 2.34 mg/kg. Three of the ZOI samples exceed the NMED screening standard. However, the TZ samples do not exceed the NMED screening level.

Background data was collected during May of 1997. Exceedances of background soil concentrations were observed for arsenic, barium, cadmium, chromium, lead, and mercury. It should be noted that, if the background data were non-detect, the reporting limit was used to determine exceedances. Therefore, an elevated detection limit for a particular analyte may result in an exceedance even though that analyte may not have been detected, as is the case for numerous cadmium and mercury samples. Background exceedances may also be attributed to the limited amount of existing background data and natural variations in soil quality.

7.2 GROUNDWATER SAMPLING RESULTS

Groundwater data from the nine-year monitoring event is used to characterize the nature and extent of potential impacts to groundwater at the refinery, and to recognize any levels of contaminants that exceed applicable standards. In addition to the statistical evaluation provided in Section 8, QA/QC samples were collected, a Tier II Data Validation was performed, and results were compared to NMWQS, MCLs, or RRSLs.

7.2.1 GROUNDWATER QAQC SAMPLING

Field duplicates and trip blanks were obtained for QA/QC during sampling activities. Trip blanks accompanied laboratory sample bottles and shipping and storage containers intended for VOC analyses. Trip blanks consisted of a sample of analyte free de-ionized water placed in an appropriate sample container. Trip blanks were analyzed at a frequency of one for each shipping event involving twenty or more samples. Field duplicates were obtained for QA/QC during sampling activities. The locations from which the field duplicates were collected are shown on the groundwater sampling forms included as Appendix E.

7.2.2 GROUNDWATER DATA VALIDATION

Trihydro performed a Tier II Data Validation on the 2009 nine-year post closure monitoring event groundwater data. The laboratory data report associated with the sampling event was reviewed to determine method compliance, precision, and accuracy. Review of the analytical report generated by Hall Environmental Analysis Laboratory, Albuquerque, New Mexico and Anatek Labs, Inc., Moscow, Idaho indicated that QA/QC protocol for analyses of the aqueous samples was met, with no exceptions. The content of this data review covers groundwater data set 1003061. The data met acceptable levels of precision, accuracy, and completeness.

Only one data point was qualified due to a trip blank detection. A data qualification flag of 'U' indicates the data were evaluated to be undetected at the reported concentration. The data completeness measure for the data set was 100%. Data Validations are presented as Appendix H.

7.2.3 NMED SCREENING COMPARISON

The applicable standards for groundwater for the LTU include the New Mexico Water Quality Standards (NMWQS) set by the New Mexico Water Quality Control Commission (WQCC), and the USEPA's Maximum Contaminant Levels (MCLs). NMWQS domestic water supply screening standards and irrigation screening standards were used for

comparison. If NMWQS standards or MCLs do not exist for a contaminant, EPA Regional Screening Levels set for Residential Risk-Based Screening Levels for Tap Water (RRSLs) are utilized. As stated in the USEPA *User's Guide and Background Technical Document for USEPA Region 9's Preliminary Remediation Goals (PRG) Table* (USEPA 2009), exceeding a RRSL does not "automatically designate a site as "dirty" or trigger a response action; however, exceeding a RRSL suggests that further evaluation of the potential risks by site contaminants is appropriate."

Groundwater constituents detected during the nine-year monitoring event were acetone (MW-2), barium (MW-4, MW-5, and SMW-4), chromium (SMW-4), and cobalt (SMW-4). The cobalt concentration at SMW-4 exceeded the above-mentioned screening levels observed during the nine-year monitoring event. SMW-4's cobalt concentration of 0.026 milligrams per liter (mg/L) exceeded the RRSL of 0.011 mg/L. However, the NMWQS (irrigation) screening standard for cobalt is 0.05 mg/L which is greater than the concentration observed in SMW-4.

Gallup also compared the nine-year monitoring event groundwater data with historic LTU groundwater data. Gallup considered the data set presented in the *Annual Groundwater Monitoring Report, Gallup Refinery – 2009*, dated August 2010 for this comparison. An analytical data summary showing the nine-year monitoring event groundwater data and comparisons to applicable standards and historic data is provided as Table 2. Concentrations detected during the nine-year monitoring event were less than or comparable to maximum historic concentrations. The SMW-4 cobalt concentration was comparable to the maximum historic concentration. The maximum historic cobalt concentration was 0.017 mg/L while the 2010 nine-year sampling event SMW-4 cobalt concentration was 0.026 mg/L.

8.0 STATISTICAL EVALUATION OF ANALYTICAL DATA

As required by 20 NMAC 4.1, subpart V, §264.97 and §264.98, data collected during the nine-year monitoring event were evaluated using appropriate statistical techniques. Per the RCRA Permit and Post Closure Monitoring Plan, Gallup evaluated soil and groundwater monitoring data using Cochran's approximation to the Behrens-Fisher Student's T-test. Cochran's approximation to the Behrens-Fisher Student's T-test is shown below:

$$t^* = \frac{X_a - X_b}{\sqrt{\frac{S_m^2}{N_m} + \frac{S_b^2}{N_b}}}$$

Where: t* = t star

X_a = mean of the sample

X_b = mean of the background

S_m^2 = variance of the sample

S_b^2 = variance of the background

N_m = number of samples

N_b = number of backgrounds

$$t_c = \frac{W_b t_b + W_m t_m}{W_b + W_m}$$

Where: t_c = comparison t-star

W_b = variance/number of backgrounds

t_b = t-table with (N_b-1) degrees of freedom at the 0.05 level of significance

W_m = variance/number of samples

t_m = t-table with ((N_m-1) degrees of freedom at the 0.05 level of significance

The t-star (t*) is compared to the comparison t-star t_c using the following decision rule.

- If t* is equal to or larger than t_c then conclude that there most likely has been a statistically significant increase in this parameter.
- If t* is less than t_c then conclude that there is not a statistically significant increase in this parameter.

8.1 SOIL STATISTICS

The data set used to conduct the statistical evaluation for LTU soil included 1998 and 1999 soil characterization sampling events along with the 2009 nine-year post closure event. Laboratory reports for a small portion of the data set were not obtainable and previously prepared data summary tables were utilized. Some of these data summary tables did not include reporting limits. Non-detect data with unavailable reporting limits were not included in the statistical evaluation. New soil data from the TZ and ZOI were compared to historic soil data collected from the same zone to identify statistically significant increases over historic (background) concentrations for each analyte in each zone. A summary of the statistical evaluation is provided as Table 3. Based on the results of the Cochran's Approximation to the Behrens's-Fisher Student's T-test, statistically significant increases above background were seen for seven constituents in the TZ (barium, beryllium, chromium, cobalt, lead, nickel, and vanadium) and one constituent in the ZOI (cadmium).

8.2 GROUNDWATER STATISTICS

Gallup used the data set presented in the Annual Groundwater Monitoring Report: Gallup Refinery – 2009, dated August 2010, in addition to the 2010 nine-year post closure event to perform the groundwater statistical evaluation. This report includes annual groundwater data from LTU wells dating back to 2005. Laboratory reports for a small portion of the data were not obtainable and previously prepared data summary tables were utilized. Some of these summary tables did not included reporting limits. Non-detect data without reporting limits were not considered.

Down-gradient Sonsela Aquifer monitoring wells (MW-1, MW-2, and MW-5) were compared to the up-gradient Sonsela Aquifer monitoring well (MW-4) to determine if a statistically significant increase above up-gradient (background) concentrations is observed in the down-gradient wells. A summary of the statistical evaluation is provided as Table 3. Chloride and pH were the only constituents identified as exhibiting a statistically significant increase above background in down-gradient water quality.

Gallup monitors one well in the Chinle Slope Wash (SMW-4). SMW-4 is down-gradient of the LTU. Since up-gradient Chinle Slope Wash data is not collected, statistical evaluations cannot be used to compare up-gradient water quality to down-gradient water quality. Instead, recent (2009 and 2010) data collected from SMW-4 were compared to historic SMW-4 data (2005, 2006, 2007, and 2008) to identify if an increase above historic (background) concentrations was observed in analyte concentrations. A minimum of two data points are required from each data set (recent vs. historic) in order to make this comparison. Therefore, the 2009 data were included with the recent data set as opposed to only using the 2010 nine-year sampling data. Based on this evaluation, there were no increases above background that were identified. In addition, a more robust statistical evaluation of increasing trends was conducted to confirm the results from the Cochran's approximation to the Behrens-Fisher Student's T-test. A Mann-Kendall trend analysis was calculated for each constituent in well SMW-4. The Mann-Kendall trend analysis is a non-parametric statistic that tests for a trend in data collected from one location over time. The results of the Mann-Kendall trend analysis confirmed there were no significant increases in well SMW-4.

9.0 CONCLUSIONS

As stated in Section 8, statistically significant increases were observed for eight analytes in soil. Per Gallup's RCRA Permit, Gallup is to notify NMED of statistically significant increases. As stated in the RCRA Permit, if statistically significant increases are indicated and confirmed, sampling frequency and/or permit modifications may be required pending NMED consultation. It should be noted that of the eight constituents showing a statistically significant increase above background concentrations in soil, none exceeded the NMED Soil Screening Levels for Industrial/Occupational Soil (December 2009), as discussed in detail in Section 7.1.

Chloride and pH were the only statistically significant increases in groundwater for the down-gradient Sonsela Aquifer. There were no statistically significant increases in groundwater in the Chinle Slope Wash as discussed in Section 8.2. As detailed in Section 7.2, cobalt exceeded the RRSL in SMW-4 in groundwater. The cobalt concentration did not exceed the NMWQ's irrigation standard and generally, RRSLs are only considered when MCLs and NMWQs do not exist. Therefore, Gallup does not believe that any further actions are required at this time based on the SMW-4 cobalt exceedance. Gallup will continue to conduct post-closure monitoring at the LTU as permitted by the RCRA Permit and the Post-Closure Monitoring Plan, pending NMED consultation.

Per the RCRA Permit Gallup is notifying NMED of statistically significant increases in soil and groundwater. In accordance with the permit, Gallup will consult with NMED to determine if sampling frequency needs to be modified prior to the next sampling event. Gallup will continue to monitor the LTU network as detailed in the RCRA Permit and Post Closure Monitoring Plan until they have consulted with NMED.

10.0 SCHEDULE

Pending NMED consultation, Gallup will follow the LTU monitoring schedule presented in the Post Closure Monitoring Plan. The next LTU soil sampling event is the 19-year sampling event scheduled for 2019 per the Post Closure Monitoring Plan. The next Post Closure Monitoring Plan-required groundwater sampling event coincides with this soil sampling event and is also scheduled for 2019. However, Gallup intends to continue monitoring the LTU groundwater monitoring network on an annual basis as part of the site wide groundwater monitoring network. Gallup will continue to submit annual groundwater monitoring reports to NMED. A 19-year LTU Monitoring Report, similar in format to this report, will be submitted to NMED upon evaluation of the 19-year sampling event data.

TABLES

TABLE 1a. 2009 VOC AND TPH SOIL SAMPLING RESULTS AND HISTORICAL COMPARISON, WESTERN REFINING COMPANY, GALLUP REFINERY, GALLUP, NEW MEXICO

Sample ID	Sample Date	Benzene (mg/kg)	Carbon Disulfide (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)
TZ-1-2521-121109	12/11/2009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(10)	ND(50)
TZ-1-371-121109	12/11/2009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(10)	ND(50)
TZ-2-4139-121109	12/11/2009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(10)	ND(50)
TZ-2-8334-121109	12/11/2009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(10)	ND(50)
TZ-3-3414-121109	12/11/2009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(10)	ND(50)
TZ-3-7544-121109	12/11/2009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(10)	ND(50)
ZOI-3-7544-121109	12/11/2009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	270.00	ND(50)
ZOI-1-2521-120909	12/9/2009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(10)	ND(50)
ZOI-1-371-120809	12/8/2009	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(10)	ND(50)
ZOI-2-4139-120909	12/9/2009	ND(0.005)	0.00536	ND(0.005)	ND(0.005)	9400.00	11000.00
ZOI-2-8334-120909	12/9/2009	0.00629	0.00845	0.0074	0.0153	7000.00	6900.00
ZOI-3-3414-120909	12/9/2009	ND(0.005)	ND(0.005)	ND(0.005)	0.00832	1800.00	1800.00
NMED Soil Screening Levels (December 2009)		85.40	7540.00	385.00	57900.00	NA	NA
Maximum Characterization Event Concentration		ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	NA	NA
Background (1997)		NA	NA	NA	NA	NA	NA

Notes:
-- mg/kg = milligrams per kilogram
-- ND = Non-Detect
-- NA = Not Applicable
-- NMED = New Mexico Environment Department
-- TZ = Treatment Zone
-- ZOI = Zone of Incorporation
-- VOC = Volatile Organic Compound
-- TPH = Total Petroleum Hydrocarbon
-- Maximum Characterization Event data includes 1998 and 1999 characterization events.
-- For screening level comparisons, detection limits were used for non-detect data.
-- ND values inside the parentheses for 2009 Sample Data indicate the Practical Quantization Limit (PQL)

TABLE 1b. 2009 SVOC SOIL SAMPLING RESULTS AND HISTORICAL COMPARISON,
WESTERN REFINING COMPANY, GALLUP REFINERY, GALLUP, NEW MEXICO

Sample ID	Sample Date	2-Methylnaphthalene (mg/kg)	Anthracene (mg/kg)	Benzenethiole (mg/kg)	Benz(a)anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo(b)fluoranthene (mg/kg)	Bis(2-ethylhexyl)phthalate (mg/kg)	Butylbenzylphthalate (mg/kg)	Chrysene (mg/kg)	Cresol (Total) (mg/kg)	Dibenz(a,h)anthracene (mg/kg)	Diethylphthalate (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)	Naphthalene (mg/kg)	Phenanthrene (mg/kg)	Phenol (mg/kg)	Pyrene (mg/kg)
TZ-1-2521-121109	12/11/2009	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.101	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.185	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
TZ-1-371-121109	12/11/2009	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.082	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.158	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
TZ-2-4139-121109	12/11/2009	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	*0.093*	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.143	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
TZ-2-8334-121109	12/11/2009	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	*0.237*	ND(0.05)	*0.195*	ND(0.05)	0.328	ND(0.05)	ND(0.05)	0.133	*ND(0.05)*	*ND(0.05)*	*ND(0.05)*	*ND(0.05)*	*0.105*
TZ-3-3414-121109	12/11/2009	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.101	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.063	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
TZ-3-7544-121109	12/11/2009	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
ZOI-3-7544-121109	12/11/2009	ND(0.05)	ND(0.05)	0.401	0.361	**2.6**	ND(0.05)	ND(0.05)	ND(0.05)	1.54	ND(0.05)	0.531	ND(0.05)	0.294	ND(0.05)	0.121	ND(0.05)	0.125
ZOI-1-2521-120909	12/9/2009	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.408	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
ZOI-1-371-120809	12/8/2009	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
ZOI-2-4139-120909	12/9/2009	ND(0.05)	ND(0.05)	3.04	0.889	**12.1**	ND(0.05)	ND(0.05)	0.436	13.0	0.45	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	0.20	3.63
ZOI-2-8334-120909	12/9/2009	0.408	ND(0.05)	0.292	1.22	**8.18**	1.27	ND(0.05)	ND(0.05)	9.12	ND(0.05)	0.943	0.204	0.45	0.161	ND(0.05)	ND(0.05)	2.86
ZOI-3-3414-120909	12/9/2009	ND(0.05)	0.088	0.292	ND(0.05)	0.701	ND(0.05)	ND(0.05)	ND(0.05)	0.401	0.104	ND(0.05)	0.378	ND(0.05)	ND(0.05)	ND(0.05)	0.151	ND(0.05)
NMED Soil Screening Levels (December 2009		NA	183000.0	NA	23.4	2.3	23.4	1370.0	NA	2340.0	NA	2.3	547000.0	23.4	252.0	20500.0	205000.0	18300.0
Maximum Characterization Event Concentratio		ND(2.11)	ND(2.11)	ND(2.11)	ND(11)	2.5	2.4	ND(2.11)	ND(2.11)	3.4	NA	ND(2.11)	ND(2.11)	ND(2.11)	ND(2.11)	5.4	2.1	ND(2.11)
Background (1997)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
– mg/kg = milligrams per kilogram
– ND = Non-Detect
– NA = Not Applicable
– NMED = New Mexico Environment Department
– TZ = Treatment Zone
– ZOI = Zone of Incorporation
– SVOC = Semi-Volatile Organic Compound
– Maximum Characterization Event data includes 1998 and 1999 characterization events.
– For screening level comparisons, detection limits were used for non-detect data.
– ND values inside the parentheses for 2009 Sample Data indicate the Practical Quantization Limit (PQL).
– **Bold** indicates an exceedance of the Maximum Characterization Event Concentration.
– Red indicates an exceedance of NMED Soil Screening Level.
– **Bold Red** indicates an exceedance of both the Maximum Characterization Event Concentration and NMED Soil Screening Level.

TABLE 1c. 2009 METAL SOIL SAMPLING RESULTS AND HISTORICAL COMPARISON, WESTERN REFINING COMPANY, GALLUP REFINERY, GALLUP, NEW MEXICO

Sample ID	Sample Date	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Cyanide (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
TZ-1-2521-121109	12/11/2009	1.72	281.00	1.70	ND(1)	29.60	9.54	ND(0.5)	14.60	ND(0.05)	22.80	ND(1)	35.70	36.80
TZ-1-371-121109	12/11/2009	1.49	275.00	1.50	ND(1)	22.10	8.01	ND(0.5)	13.30	ND(0.05)	16.10	ND(1)	29.60	25.40
TZ-2-4139-121109	12/11/2009	1.60	326.00	1.91	ND(1)	32.30	10.30	ND(0.5)	15.60	ND(0.05)	21.90	ND(1)	40.30	35.30
TZ-2-8334-121109	12/11/2009	1.68	328.00	1.53	ND(1)	27.60	8.61	ND(0.5)	16.60	0.14	17.90	ND(1)	33.20	44.70
TZ-3-3414-121109	12/11/2009	1.71	462.00	1.85	ND(1)	29.50	9.93	ND(0.5)	15.50	ND(0.05)	20.80	ND(1)	36.20	33.20
TZ-3-7544-121109	12/11/2009	1.40	393.00	1.70	ND(1)	28.30	9.20	ND(0.5)	14.80	ND(0.05)	18.70	ND(1)	35.70	30.50
ZOI-3-7544-121109	12/11/2009	2.69	441.00	1.61	ND(1)	135.00	9.59	6.74	23.60	0.40	24.20	ND(1)	40.90	152.00
ZOI-1-2521-120909	12/9/2009	1.56	389.00	1.73	ND(1)	26.40	8.99	ND(1)	15.50	ND(0.05)	19.50	ND(1)	30.80	30.10
ZOI-1-371-120809	12/8/2009	1.71	314.00	1.51	ND(1)	26.10	8.54	ND(2)	13.60	ND(0.05)	18.90	ND(1)	29.00	32.40
ZOI-2-4139-120909	12/9/2009	10.50	619.00	1.47	1.11	**638.00**	11.40	28.90	79.40	4.23	33.80	1.75	43.90	924.00
ZOI-2-8334-120909	12/9/2009	14.50	481.00	1.03	ND(1)	123.00	12.60	10.80	89.70	6.14	46.70	ND(1)	43.70	718.00
ZOI-3-3414-120909	12/9/2009	6.96	302.00	1.10	ND(1)	122.00	12.40	5.22	61.10	1.31	26.90	ND(1)	34.10	235.00
NMED Soil Screening Levels (December 2009)		17.7	224000.0	2260.0	1120.0	2920.0	NA	22700.0	800.0	49.9	22700.0	5680.0	5680.0	341000.0
Maximum Characterization Event Concentration		20.0	3400.0	11.0	6.0	310.0	53.0	NA	120.0	13.0	130.0	ND(10)	220.0	NA
Background (1997)		ND(5)	310.0	NA	ND(0.5)	13.0	NA	NA	10.0	ND(0.02)	NA	ND(10)	NA	NA

Notes:
-- mg/kg = milligrams per kilogram
-- ND = Non-Detect
-- NA = Not Applicable
-- NMED = New Mexico Environment Department
-- TZ = Treatment Zone
-- ZOI = Zone of Incorporation
-- Maximum Characterization Event data includes 1998 and 1999 characterization events.
-- For screening level comparisons, detection limits were used for non-detect data.
-- ND values inside the parentheses for 2009 Sample Data indicate the Practical Quantization Limit (PQL).
-- **Bold** indicates an exceedance of the Maximum Characterization Event Concentration.
-- Blue indicates an exceedance of the Background value; which includes analytical data results that are greater than the detection limit for ND background results
-- **Bold Blue** indicates an exceedance of both the Maximum Historic Characterization Event Concentration and Background

TABLE 2. GROUNDWATER ANALYTICAL DATA SUMMARY
LTU 9-YEAR MONITORING EVENT, MARCH 2010,
WESTERN REFINING COMPANY, GALLUP REFINERY, GALLUP NEW MEXICO

Sample ID	Location	Date	Acetone (mg/L)	Barium (mg/L)	Chromium (mg/L)	Cobalt (mg/L)	All Others
Sonsela Aquifer							
MW-1	Down Gradient	3/1/2010	ND(0.0025)	ND(0.02)	ND(0.006)	ND(0.006)	ND
MW-2	Down Gradient	3/1/2010	0.00273	ND(0.02)	ND(0.006)	ND(0.006)	ND
MW-4	Up Gradient	3/2/2010	ND(0.0025)	0.023	ND(0.006)	ND(0.006)	ND
MW-5	Down Gradient	3/1/2010	ND(0.0025)	0.024	ND(0.006)	ND(0.006)	ND
Chinle Slope Wash							
SMW-4	Down Gradient	3/1/2010	ND(0.0025)	**0.035**	0.0082	**0.026**	ND
Screening Levels	Background		NA	NA	NA	NA	NA
	Maximum Historic Concentration		0.00753	0.031	0.055	0.017	NA
	NMDWS		NA	2	0.1	NA	NA
	NMIRR		NA	NA	0.1	0.05	NA
	EPA MCLs		NA	2	0.1	NA	NA
	RRSL		22	7.3	NA	0.011	NA

Notes:
-- NMDWS = New Mexico Domestic Water Supply (20.6.4 NMAC)
-- NMIRR = New Mexico Irrigation (20.6.4 NMAC)
-- EPA MCLs = Environmental Protection Agency Maximum Contaminant Levels
-- RRSL = Residential Risk-Based Screening Level for Tap water Table May 2010
-- NMAC = New Mexico Administrative Code
-- mg/L = milligrams per liter
-- ND = Non-Detect
-- NA = Not Applicable
-- NMAC standards for metals are for dissolved metals.
-- Where multiple RRSLs are provided, the most conservative is used.
-- Source of data for "Highest Historic" is Annual Groundwater Monitoring Report: Gallup Refinery - 2009.
-- ND values inside the parentheses for 2010 Sample Data indicate the Practical Quantization Limit (PQL).
-- **Bold** indicates an exceedance of the Maximum Historic Concentration.
-- Red indicates an exceedance of NMDWS, NMIRR, EPA MACLs, or RRSL.
-- **Bold Red** indicates an exceedance of both the Maximum Historic Concentration and NMDWS, NMIRR, EPA MCLs, or RRSL.

TABLE 3. STATISTICAL EVALUATION SUMMARY,
WESTERN REFINING COMPANY, GALLUP REFINERY, GALLUP, NEW MEXICO

Matrix	Area	Designation	Analyte	Number of Samples	Frequency of Detect	Sample Mean	Sample Median	Standard Deviation	Covariance	Minimum Detected Value	Maximum Detected Value	Minimum ND	Maximum ND
Soil	TZ	BG	Antimony, Total	10	10%	3.05	1.2	4.594	1.506	16	16	1.1	2.5
Soil	TZ	Site	Antimony, Total	6	0%	1	1	0	0	ALL ND	ALL ND	1	1
Soil	TZ	BG	Arsenic, Total	26	23%	3.796	5	1.589	0.419	1.2	1.7	2.5	5
Soil	TZ	Site	Arsenic, Total	6	100%	1.6	1.64	0.13	0.081	1.4	1.72	ALL DETECTS	ALL DETECTS
Soil	**TZ**	**BG**	**Barium, Total**	**26**	**100%**	**270.769**	**275**	**74.239**	**0.274**	**140**	**450**	**ALL DETECTS**	**ALL DETECTS**
Soil	**TZ**	**Site**	**Barium, Total**	**6**	**100%**	**344.167**	**327**	**71.603**	**0.208**	**275**	**462**	**ALL DETECTS**	**ALL DETECTS**
Soil	TZ	BG	Benzo(a)pyrene	22	0%	0.303	0.375	0.097	0.321	ALL ND	ALL ND	0.192	0.4
Soil	TZ	Site	Benzo(a)pyrene	6	17%	0.081	0.05	0.076	0.941	0.237	0.237	0.05	0.05
Soil	**TZ**	**BG**	**Beryllium, Total**	**10**	**70%**	**1.32**	**1.35**	**0.294**	**0.222**	**1.1**	**1.8**	**1**	**1**
Soil	**TZ**	**Site**	**Beryllium, Total**	**6**	**100%**	**1.698**	**1.7**	**0.165**	**0.097**	**1.5**	**1.91**	**ALL DETECTS**	**ALL DETECTS**
Soil	TZ	BG	Bis(2-ethylhexyl)phthalate	10	0%	0.2	0.2	0.006	0.029	ALL ND	ALL ND	0.192	0.206
Soil	TZ	Site	Bis(2-ethylhexyl)phthalate	6	83%	0.104	0.097	0.049	0.469	0.082	0.195	0.05	0.05
Soil	**TZ**	**BG**	**Chromium, Total**	**26**	**100%**	**11.7**	**10**	**4.835**	**0.413**	**7**	**27**	**ALL DETECTS**	**ALL DETECTS**
Soil	**TZ**	**Site**	**Chromium, Total**	**6**	**100%**	**28.233**	**28.9**	**3.407**	**0.121**	**22.1**	**32.3**	**ALL DETECTS**	**ALL DETECTS**
Soil	TZ	BG	Chrysene	22	0%	0.303	0.375	0.097	0.321	ALL ND	ALL ND	0.192	0.4
Soil	TZ	Site	Chrysene	6	17%	0.096	0.05	0.113	1.178	0.328	0.328	0.05	0.05
Soil	**TZ**	**BG**	**Cobalt, Total**	**10**	**90%**	**5.77**	**5.35**	**2.003**	**0.347**	**4.1**	**8.8**	**2.5**	**2.5**
Soil	**TZ**	**Site**	**Cobalt, Total**	**6**	**100%**	**9.265**	**9.37**	**0.848**	**0.092**	**8.01**	**10.3**	**ALL DETECTS**	**ALL DETECTS**
Soil	TZ	BG	Diethylphthalate	10	0%	0.2	0.2	0.006	0.029	ALL ND	ALL ND	0.192	0.206
Soil	TZ	Site	Diethylphthalate	6	83%	0.122	0.138	0.054	0.441	0.063	0.185	0.05	0.05
Soil	TZ	BG	Di-n-butylphthalate	10	0%	0.2	0.2	0.006	0.029	ALL ND	ALL ND	0.192	0.206
Soil	TZ	Site	Di-n-butylphthalate	6	17%	0.064	0.05	0.035	0.541	0.135	0.135	0.05	0.05
Soil	**TZ**	**BG**	**Lead, Total**	**26**	**88%**	**7.904**	**7**	**2.745**	**0.347**	**5**	**13**	**5**	**5**
Soil	**TZ**	**Site**	**Lead, Total**	**6**	**100%**	**15.067**	**15.15**	**1.117**	**0.074**	**13.3**	**16.6**	**ALL DETECTS**	**ALL DETECTS**
Soil	TZ	BG	Mercury	26	0%	0.051	0.02	0.04	0.782	ALL ND	ALL ND	0.02	0.1
Soil	TZ	Site	Mercury	6	17%	0.064	0.05	0.035	0.541	0.135	0.135	0.05	0.05
Soil	**TZ**	**BG**	**Nickel, Total**	**10**	**100%**	**12.5**	**11.4**	**4.104**	**0.328**	**7**	**19**	**ALL DETECTS**	**ALL DETECTS**
Soil	**TZ**	**Site**	**Nickel, Total**	**6**	**100%**	**19.7**	**19.75**	**2.564**	**0.13**	**16.1**	**22.8**	**ALL DETECTS**	**ALL DETECTS**
Soil	TZ	BG	Pyrene	22	0%	0.303	0.375	0.097	0.321	ALL ND	ALL ND	0.192	0.4
Soil	TZ	Site	Pyrene	6	17%	0.059	0.05	0.022	0.379	0.105	0.105	0.05	0.05
Soil	TZ	BG	Selenium, Total	26	4%	6.808	10	4.139	0.608	10	10	1.1	10
Soil	TZ	Site	Selenium, Total	6	0%	1	1	0	0	ALL ND	ALL ND	1	1
Soil	**TZ**	**BG**	**Vanadium, Total**	**10**	**100%**	**22.6**	**19**	**9.698**	**0.429**	**12**	**40**	**ALL DETECTS**	**ALL DETECTS**
Soil	**TZ**	**Site**	**Vanadium, Total**	**6**	**100%**	**35.117**	**35.7**	**3.545**	**0.101**	**29.6**	**40.3**	**ALL DETECTS**	**ALL DETECTS**
Soil	ZOI	BG	1-Methylnaphthalene	18	6%	0.938	0.4	0.879	0.938	2.76	2.76	0.194	2.11
Soil	ZOI	Site	1-Methylnaphthalene	6	17%	0.083	0.05	0.08	0.968	0.246	0.246	0.05	0.05
Soil	ZOI	BG	2-Methylnaphthalene	10	0%	1.292	1.915	0.904	0.699	ALL ND	ALL ND	0.194	2.11
Soil	ZOI	Site	2-Methylnaphthalene	6	17%	0.11	0.05	0.146	1.333	0.408	0.408	0.05	0.05
Soil	ZOI	BG	Anthracene	10	0%	1.292	1.915	0.904	0.699	ALL ND	ALL ND	0.194	2.11
Soil	ZOI	Site	Anthracene	6	17%	0.056	0.05	0.016	0.275	0.088	0.088	0.05	0.05
Soil	ZOI	BG	Antimony, Total	10	10%	1.71	1.2	0.681	0.398	1.2	1.2	1.1	2.5
Soil	ZOI	Site	Antimony, Total	6	0%	1	1	0	0	ALL ND	ALL ND	1	1
Soil	ZOI	BG	Arsenic, Total	19	42%	5.647	5	4.635	0.821	1.3	20	2.5	5
Soil	ZOI	Site	Arsenic, Total	6	100%	6.32	4.825	5.327	0.843	1.56	14.5	ALL DETECTS	ALL DETECTS
Soil	ZOI	BG	Barium, Total	18	100%	377.222	340	219.808	0.583	180	1100	ALL DETECTS	ALL DETECTS
Soil	ZOI	Site	Barium, Total	6	100%	424.333	415	118.128	0.278	302	619	ALL DETECTS	ALL DETECTS
Soil	ZOI	BG	Benzene	9	0%	0.028	0.025	0.008	0.3	ALL ND	ALL ND	0.025	0.05
Soil	ZOI	Site	Benzene	6	17%	0.005	0.005	0.001	0.101	0.00629	0.00629	0.005	0.005
Soil	ZOI	BG	Benzo(a)anthracene	10	0%	1.292	1.915	0.904	0.699	ALL ND	ALL ND	0.194	2.11
Soil	ZOI	Site	Benzo(a)anthracene	6	50%	0.437	0.206	0.504	1.155	0.361	1.22	0.05	0.05
Soil	ZOI	BG	Benzo(a)pyrene	18	6%	0.922	0.4	0.848	0.919	2.5	2.5	0.194	2.11
Soil	ZOI	Site	Benzo(a)pyrene	6	67%	3.947	1.651	5.042	1.278	0.701	12.1	0.05	0.05
Soil	ZOI	BG	Beryllium, Total	10	50%	2.14	1.15	3.118	1.457	1	11	1	1.2
Soil	ZOI	Site	Beryllium, Total	6	100%	1.408	1.49	0.282	0.2	1.03	1.73	ALL DETECTS	ALL DETECTS
Soil	ZOI	BG	Butylbenzylphthalate	10	0%	1.292	1.915	0.904	0.699	ALL ND	ALL ND	0.194	2.11
Soil	ZOI	Site	Butylbenzylphthalate	6	17%	0.114	0.05	0.158	1.378	0.436	0.436	0.05	0.05
Soil	**ZOI**	**BG**	**Cadmium, Total**	**18**	**6%**	**0.743**	**0.5**	**0.327**	**0.44**	**0.78**	**0.78**	**0.5**	**1.2**
Soil	**ZOI**	**Site**	**Cadmium, Total**	**6**	**17%**	**1.018**	**1**	**0.045**	**0.044**	**1.11**	**1.11**	**1**	**1**
Soil	ZOI	BG	Carbon Disulfide	1	0%	0.05	0.05	0	0	ALL ND	ALL ND	0.05	0.05
Soil	ZOI	Site	Carbon disulfide	6	33%	0.006	0.005	0.001	0.246	0.00536	0.00845	0.005	0.005
Soil	ZOI	BG	Chromium, Total	18	100%	87.583	27	97.286	1.111	8.5	310	ALL DETECTS	ALL DETECTS
Soil	ZOI	Site	Chromium, Total	6	100%	178.417	122.5	230.506	1.292	26.1	638	ALL DETECTS	ALL DETECTS
Soil	ZOI	BG	Chrysene	18	22%	1.163	0.405	1.113	0.957	2.31	3.39	0.194	2.01
Soil	ZOI	Site	Chrysene	6	67%	4.027	0.971	5.611	1.393	0.401	13	0.05	0.05
Soil	ZOI	BG	Cobalt, Total	10	100%	12.39	6.8	17.836	1.44	5.1	63	ALL DETECTS	ALL DETECTS
Soil	ZOI	Site	Cobalt, Total	6	100%	10.587	10.495	1.774	0.168	8.54	12.6	ALL DETECTS	ALL DETECTS
Soil	ZOI	BG	Dibenz(a,h)anthracene	10	0%	1.292	1.915	0.904	0.699	ALL ND	ALL ND	0.194	2.11
Soil	ZOI	Site	Dibenz(a,h)anthracene	6	33%	0.279	0.05	0.378	1.355	0.531	0.943	0.05	0.05
Soil	ZOI	BG	Diethylphthalate	10	0%	1.292	1.915	0.904	0.699	ALL ND	ALL ND	0.194	2.11
Soil	ZOI	Site	Diethylphthalate	6	50%	0.19	0.127	0.168	0.887	0.204	0.408	0.05	0.05
Soil	ZOI	BG	Ethylbenzene	9	0%	0.028	0.025	0.008	0.3	ALL ND	ALL ND	0.025	0.05
Soil	ZOI	Site	Ethylbenzene	6	17%	0.005	0.005	0.001	0.181	0.0074	0.0074	0.005	0.005

Area	Analyte	X_s	X_b	S_m^2	S_b^2	N_m	N_b	W_b	t_b	W_m	t_m	t^*	t_c	Significant Increase?
TZ	Antimony, Total	1	3.05	0	21.10484	6	10	2.11E+00	1.833	0	2.015	-1.411	1.833	NO
TZ	Arsenic, Total	1.6	3.796	0.0169	2.524921	6	26	9.71E-02	1.708	2.82E-03	2.015	-6.947	1.717	NO
TZ	**Barium, Total**	**344.167**	**270.769**	**5126.99**	**5511.429**	**6**	**26**	**2.12E+02**	**1.708**	**8.54E+02**	**2.015**	**2.248**	**1.954**	**YES**
TZ	Benzo(a)pyrene	0.081	0.303	0.005776	0.009409	6	22	4.28E-04	1.721	9.63E-04	2.015	-5.954	1.925	NO
TZ	**Beryllium, Total**	**1.698**	**1.32**	**0.027225**	**0.086436**	**6**	**10**	**8.64E-03**	**1.833**	**4.54E-03**	**2.015**	**3.292**	**1.896**	**YES**
TZ	Bis(2-ethylhexyl)phthalate	0.104	0.2	0.002401	0.000036	6	10	3.60E-06	1.833	4.00E-04	2.015	-4.778	2.013	NO
TZ	**Chromium, Total**	**28.233**	**11.7**	**11.60765**	**23.37723**	**6**	**26**	**8.99E-01**	**1.708**	**1.93E+00**	**2.015**	**9.821**	**1.918**	**YES**
TZ	Chrysene	0.096	0.303	0.012769	0.009409	6	22	4.28E-04	1.721	2.13E-03	2.015	-4.095	1.966	NO
TZ	**Cobalt, Total**	**9.265**	**5.77**	**0.719104**	**4.012009**	**6**	**10**	**4.01E-01**	**1.833**	**1.20E-01**	**2.015**	**4.842**	**1.875**	**YES**
TZ	Diethylphthalate	0.122	0.2	0.002916	0.000036	6	10	3.60E-06	1.833	4.86E-04	2.015	-3.525	2.014	NO
TZ	Di-n-butylphthalate	0.064	0.2	0.001225	0.000036	6	10	3.60E-06	1.833	2.04E-04	2.015	-9.435	2.012	NO
TZ	**Lead, Total**	**15.067**	**7.904**	**1.247689**	**7.535025**	**6**	**26**	**2.90E-01**	**1.708**	**2.08E-01**	**2.015**	**10.153**	**1.836**	**YES**
TZ	Mercury	0.064	0.051	0.001225	0.0016	6	26	6.15E-05	1.708	2.04E-04	2.015	0.798	1.944	NO
TZ	**Nickel, Total**	**19.7**	**12.5**	**6.574096**	**16.84282**	**6**	**10**	**1.68E+00**	**1.833**	**1.10E+00**	**2.015**	**4.318**	**1.905**	**YES**
TZ	Pyrene	0.059	0.303	0.000484	0.009409	6	22	4.28E-04	1.721	8.07E-05	2.015	-10.822	1.768	NO
TZ	Selenium, Total	1	6.808	0	17.13132	6	26	6.59E-01	1.708	0.00E+00	2.015	-7.155	1.708	NO
TZ	**Vanadium, Total**	**35.117**	**22.6**	**12.56703**	**94.0512**	**6**	**10**	**9.41E+00**	**1.833**	**2.09E+00**	**2.015**	**3.691**	**1.866**	**YES**
ZOI	1-Methylnaphthalene	0.083	0.938	0.0064	0.772641	6	18	4.29E-02	1.74	1.07E-03	2.015	-4.076	1.747	NO
ZOI	2-Methylnaphthalene	0.11	1.292	0.021316	0.817216	6	10	8.17E-02	1.833	3.55E-03	2.015	-4.048	1.841	NO
ZOI	Anthracene	0.056	1.292	0.000256	0.817216	6	10	8.17E-02	1.833	4.27E-05	2.015	-4.323	1.833	NO
ZOI	Antimony, Total	1	1.71	0	0.463761	6	10	4.64E-02	1.833	0.00E+00	2.015	-3.297	1.833	NO
ZOI	Arsenic, Total	6.32	5.647	28.37693	21.48323	6	19	1.13E+00	1.734	4.73E+00	2.015	0.278	1.961	NO
ZOI	Barium, Total	424.333	377.222	13954.22	48315.56	6	18	2.68E+03	1.74	2.33E+03	2.015	0.666	1.868	NO
ZOI	Benzene	0.005	0.028	0.000001	0.000064	6	9	7.11E-06	1.86	1.67E-07	2.015	-8.526	1.864	NO
ZOI	Benzo(a)anthracene	0.437	1.292	0.254016	0.817216	6	10	8.17E-02	1.833	4.23E-02	2.015	-2.427	1.895	NO
ZOI	Benzo(a)pyrene	3.947	0.922	25.42176	0.719104	6	18	4.00E-02	1.74	4.24E+00	2.015	1.463	2.012	NO
ZOI	Beryllium, Total	1.408	2.14	0.079524	9.721924	6	10	9.72E-01	1.833	1.33E-02	2.015	-0.737	1.835	NO
ZOI	Butylbenzylphthalate	0.114	1.292	0.024964	0.817216	6	10	8.17E-02	1.833	4.16E-03	2.015	-4.020	1.842	NO
ZOI	**Cadmium, Total**	**1.018**	**0.743**	**0.002025**	**0.106929**	**6**	**18**	**5.94E-03**	**1.74**	**3.38E-04**	**2.015**	**3.471**	**1.755**	**YES**
ZOI	Carbon disulfide	0.006	0.05	0.000001	0	6	1	0.00E+00	0	1.67E-07	2.015	-107.778	2.015	NC
ZOI	Chromium, Total	178.417	87.583	53133.02	9464.566	6	18	5.26E+02	1.74	8.86E+03	2.015	0.938	2.000	NO
ZOI	Chrysene	4.027	1.163	31.48332	1.238769	6	18	6.88E-02	1.74	5.25E+00	2.015	1.242	2.011	NO
ZOI	Cobalt, Total	10.587	12.39	3.147076	318.1229	6	10	3.18E+01	1.833	5.25E-01	2.015	-0.317	1.836	NO
ZOI	Dibenz(a,h)anthracene	0.279	1.292	0.142884	0.817216	6	10	8.17E-02	1.833	2.38E-02	2.015	-3.118	1.874	NO
ZOI	Diethylphthalate	0.19	1.292	0.028224	0.817216	6	10	8.17E-02	1.833	4.70E-03	2.015	-3.749	1.843	NO
ZOI	Ethylbenzene	0.005	0.028	0.000001	0.000064	6	9	7.11E-06	1.86	1.67E-07	2.015	-8.526	1.864	NO

TABLE 3. STATISTICAL EVALUATION SUMMARY,
WESTERN REFINING COMPANY, GALLUP REFINERY, GALLUP, NEW MEXICO

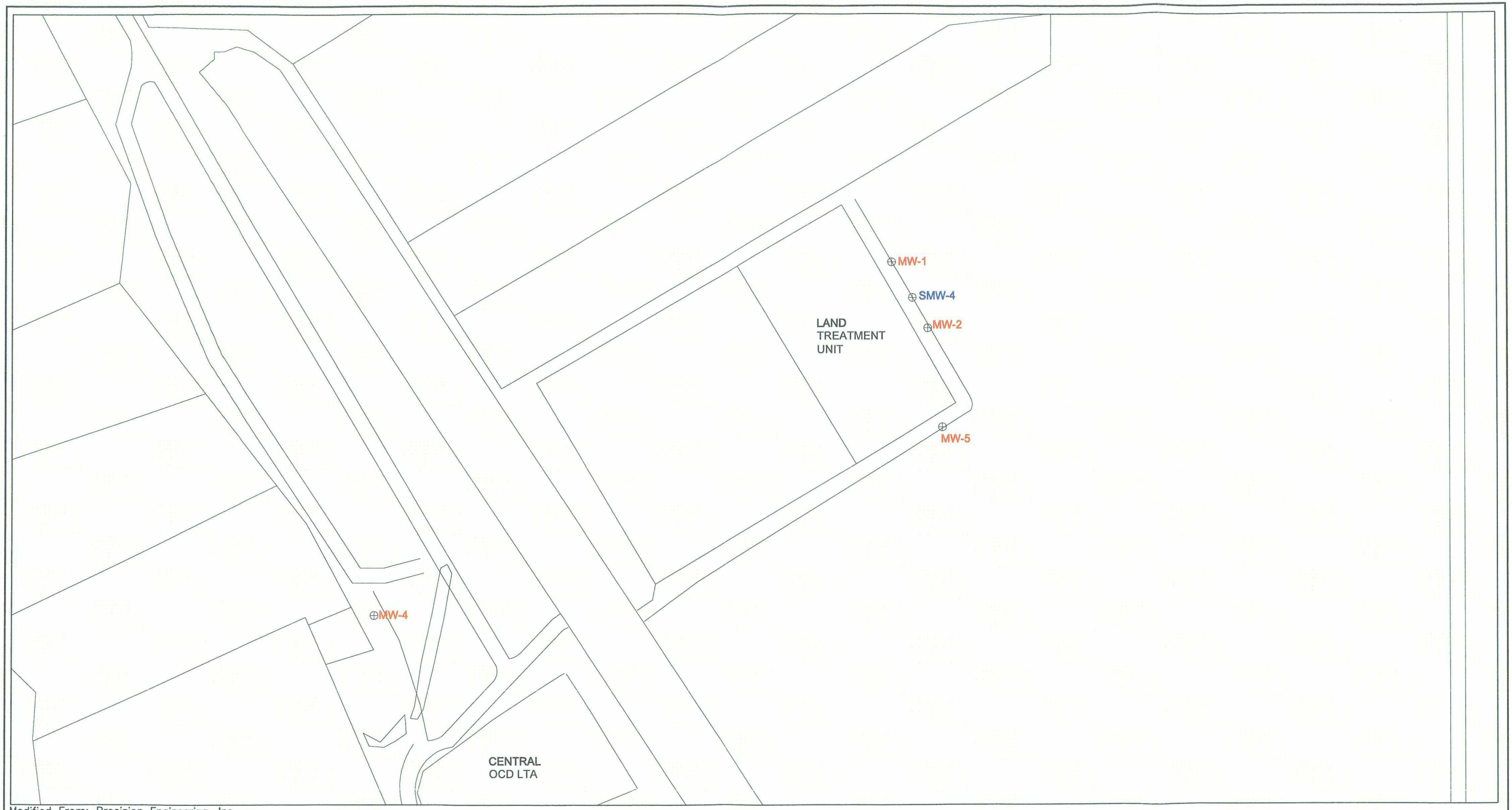
Matrix	Area	Designation	Analyte	Number of Samples	Frequency of Detect	Sample Mean	Sample Median	Standard Deviation	Covariance	Minimum Detected Value	Maximum Detected Value	Minimum ND	Maximum ND	X_a	X_b	S_m^2	S_b^2	N_m	N_b	W_b	t_b	W_m	t_m	t^*	t_c	Significant Increase?
Soil	ZOI	BG	Indeno(1,2,3-cd)pyrene	10	0%	1.292	1.915	0.904	0.699	ALL ND	ALL ND	0.194	2.11	0.157	1.292	0.029929	0.817216	6	10	8.17E-02	1.833	4.99E-03	2.015	-3.854	1.843	NO
Soil	ZOI	Site	Indeno(1,2,3-cd)pyrene	6	33%	0.157	0.05	0.173	1.102	0.294	0.45	0.05	0.05													
Soil	ZOI	BG	Lead, Total	18	89%	28.278	11	32.44	1,147	6	120	5	5	47.15	28.278	1145.416	1052.354	6	18	5.85E+01	1.74	1.91E+02	2.015	1.195	1.951	NO
Soil	ZOI	Site	Lead, Total	6	100%	47.15	42.35	33.844	0.718	13.6	89.7	ALL DETECTS	ALL DETECTS													
Soil	ZOI	BG	Mercury	20	40%	1.451	0.1	3.307	2.28	0.1	13	0.02	0.1	2.03	1.451	6.548481	10.93625	6	20	5.47E-01	1.729	1.09E+00	2.015	0.452	1.920	NO
Soil	ZOI	Site	Mercury	6	67%	2.03	0.655	2.559	1.261	0.399	6.14	0.05	0.05													
Soil	ZOI	BG	Naphthalene	10	0%	1.292	1.915	0.904	0.699	ALL ND	ALL ND	0.194	2.11	0.069	1.292	0.002025	0.817216	6	10	8.17E-02	1.833	3.38E-04	2.015	-4.269	1.834	NO
Soil	ZOI	Site	Naphthalene	6	17%	0.069	0.05	0.045	0.662	0.161	0.161	0.05	0.05													
Soil	ZOI	BG	Nickel, Total	10	100%	35.6	26	35.985	1.011	11	130	ALL DETECTS	ALL DETECTS	28.333	35.6	110.6704	1294.92	6	10	1.29E+02	1.833	1.84E+01	2.015	-0.597	1.856	NO
Soil	ZOI	Site	Nickel, Total	6	100%	28.333	25.55	10.52	0.371	18.9	45.7	ALL DETECTS	ALL DETECTS													
Soil	ZOI	BG	Phenanthrene	18	11%	1.267	0.4	1.639	1.293	5.32	5.38	0.194	2.11	0.062	1.267	0.000841	2.686321	6	18	1.49E-01	1.74	1.40E-04	2.015	-3.118	1.740	NO
Soil	ZOI	Site	Phenanthrene	6	17%	0.062	0.05	0.029	0.469	0.121	0.121	0.05	0.05													
Soil	ZOI	BG	Phenol	10	0%	1.292	1.915	0.904	0.699	ALL ND	ALL ND	0.194	2.11	0.092	1.292	0.004489	0.817216	6	10	8.17E-02	1.833	7.48E-04	2.015	-4.179	1.835	NO
Soil	ZOI	Site	Phenol	6	33%	0.092	0.05	0.067	0.726	0.151	0.2	0.05	0.05													
Soil	ZOI	BG	Pyrene	18	11%	0.942	0.405	0.856	0.909	0.618	2.63	0.194	2.11	1.128	0.942	2.748964	0.732736	6	18	4.07E-02	1.74	4.58E-01	2.015	0.263	1.993	NO
Soil	ZOI	Site	Pyrene	6	50%	1.128	0.088	1.658	1.471	0.125	3.63	0.05	0.05													
Soil	ZOI	BG	Selenium, Total	18	6%	5.511	2.9	4.174	0.757	3.3	3.3	1.1	10	1.125	5.511	0.093636	17.42228	6	18	9.68E-01	1.74	1.56E-02	2.015	-4.423	1.744	NO
Soil	ZOI	Site	Selenium, Total	6	17%	1.125	1	0.306	0.272	1.75	1.75	1	1													
Soil	ZOI	BG	Toluene	9	0%	0.028	0.025	0.008	0.3	ALL ND	ALL ND	0.025	0.05	0.007	0.028	0.000016	0.000064	6	9	7.11E-06	1.86	2.67E-06	2.015	-6.716	1.902	NO
Soil	ZOI	Site	Toluene	6	33%	0.007	0.005	0.004	0.571	0.00832	0.0153	0.005	0.005													
Soil	ZOI	BG	Vanadium, Total	10	100%	45.7	30	61.932	1.355	13	220	ALL DETECTS	ALL DETECTS	37.067	45.7	43.70532	3835.573	6	10	3.84E+02	1.833	7.28E+00	2.015	-0.437	1.836	NO
Soil	ZOI	Site	Vanadium, Total	6	100%	37.067	37.5	6.611	0.178	29	43.9	ALL DETECTS	ALL DETECTS													
Water	LAQ	UP	Acetone	5	0%	0.505	0.01	1.115	2.208	ALL ND	ALL ND	0.0025	2.5	0.708	0.505	1.444804	1.243225	11	5	2.49E-01	2.132	1.31E-01	1.812	0.329	2.021	NO
Water	LAQ	DN	Acetone	11	18%	0.708	0.01	1.202	1.697	0.00492	2.73	0.0025	2.5													
Water	LAQ	UP	Arsenic, Total	5	0%	0.013	0.02	0.009	0.713	ALL ND	ALL ND	0.001	0.02	0.013	0.013	0.000081	0.000081	12	5	1.62E-05	2.132	6.75E-06	1.782	0.000	2.029	NO
Water	LAQ	DN	Arsenic, Total	12	25%	0.013	0.02	0.009	0.657	0.00104	0.02	0.005	0.02													
Water	LAQ	UP	Barium, Total	5	80%	0.022	0.022	0.001	0.053	0.021	0.023	0.02	0.02	0.02	0.022	0.000004	0.000001	13	5	2.00E-07	2.132	3.08E-07	1.771	-2.807	1.913	NO
Water	LAQ	DN	Barium, Total	13	31%	0.02	0.02	0.002	0.103	0.015	0.024	0.02	0.02													
Water	LAQ	UP	Bis(2-ethylhexyl)phthalate	5	20%	1.007	0.01	2.232	2.218	0.00679	0.00679	0.001	5	1.507	1.007	5.812921	4.981824	10	5	9.96E-01	2.132	5.81E-01	1.833	0.398	2.022	NO
Water	LAQ	DN	Bis(2-ethylhexyl)phthalate	10	0%	1.507	0.015	2.411	1.6	ALL ND	ALL ND	0.0005	5													
Water	LAQ	UP	Calcium, Total	4	100%	1.8	1.8	0.082	0.045	1.7	1.9	ALL DETECTS	ALL DETECTS	1.85	1.8	0.306916	0.006724	10	4	1.68E-03	2.353	3.07E-02	1.833	0.278	1.860	NO
Water	LAQ	DN	Calcium, Total	10	100%	1.85	1.65	0.554	0.3	1.4	3.2	ALL DETECTS	ALL DETECTS													
Water	**LAQ**	**UP**	**Chloride**	**4**	**100%**	**16.5**	**16.5**	**0.577**	**0.035**	**16**	**17**	**ALL DETECTS**	**ALL DETECTS**	**55.8**	**16.5**	**56.62563**	**0.332929**	**10**	**4**	**8.32E-02**	**2.353**	**5.66E+00**	**1.833**	**16.395**	**1.841**	**YES**
Water	**LAQ**	**DN**	**Chloride**	**10**	**100%**	**55.8**	**54.5**	**7.525**	**0.135**	**45**	**66**	**ALL DETECTS**	**ALL DETECTS**													
Water	LAQ	UP	Fluoride	4	100%	0.375	0.37	0.033	0.088	0.34	0.42	ALL DETECTS	ALL DETECTS	0.85	0.375	0	0.001089	1	4	2.72E-04	2.353	0.00E+00	0	28.788	2.353	NC
Water	LAQ	DN	Fluoride	1	100%	0.85	0.85	0	0	0.85	0.85	ALL DETECTS	ALL DETECTS													
Water	LAQ	UP	Iron, Total	1	0%	0.05	0.05	0	0	ALL ND	ALL ND	0.05	0.05	0.071	0.05	0.0009	0	2	1	0.00E+00	0	4.50E-04	6.314	0.990	6.314	NC
Water	LAQ	DN	Iron, Total	2	50%	0.071	0.071	0.03	0.418	0.092	0.092	0.05	0.05													
Water	LAQ	UP	Manganese, Total	1	100%	0.005	0.005	0	0	0.0052	0.0052	ALL DETECTS	ALL DETECTS	0.011	0.005	0.0001	0	2	1	0.00E+00	0	5.00E-05	6.314	0.849	6.314	NC
Water	LAQ	DN	Manganese, Total	2	100%	0.011	0.011	0.01	0.849	0.0045	0.018	ALL DETECTS	ALL DETECTS													
Water	**LAQ**	**UP**	**pH**	**7**	**100%**	**8.686**	**8.63**	**0.072**	**0.008**	**8.63**	**8.8**	**ALL DETECTS**	**ALL DETECTS**	**8.981**	**8.686**	**0.003364**	**0.005184**	**14**	**7**	**7.41E-04**	**1.943**	**2.40E-04**	**1.771**	**9.419**	**1.901**	**YES**
Water	***LAQ***	***DN***	***pH***	***14***	***100%***	***8.981***	***8.98***	***0.058***	***0.006***	***8.89***	***9.08***	***ALL DETECTS***	***ALL DETECTS***													
Water	LAQ	UP	Sodium, Total	4	100%	290	280	20	0.069	280	320	ALL DETECTS	ALL DETECTS	265	290	205.5496	400	10	4	1.00E+02	2.353	2.06E+01	1.833	-2.277	2.264	NO
Water	LAQ	DN	Sodium, Total	10	100%	265	260	14.337	0.054	250	290	ALL DETECTS	ALL DETECTS													
Water	LAQ	UP	Specific Conductance	4	100%	1200	1200	0	0	1200	1200	ALL DETECTS	ALL DETECTS	1117	1200	4890.065	0	10	4	0.00E+00	2.353	4.89E+02	1.833	-3.753	1.833	NO
Water	LAQ	DN	Specific Conductance	10	100%	1117	1100	69.929	0.063	970	1200	ALL DETECTS	ALL DETECTS													
Water	LAQ	UP	Sulfate	4	100%	157.5	160	5	0.032	150	160	ALL DETECTS	ALL DETECTS	166	157.5	137.7806	25	10	4	6.25E+00	2.353	1.38E+01	1.833	1.899	1.995	NO
Water	LAQ	DN	Sulfate	10	100%	166	165	11.738	0.071	150	180	ALL DETECTS	ALL DETECTS													
Water	UAQ	BKG	Barium, Total	4	50%	0.024	0.022	0.005	0.218	0.024	0.031	0.02	0.02	0.032	0.024	0.000025	0.000025	2	4	6.25E-06	2.353	1.25E-05	6.314	1.848	4.994	NO
Water	UAQ	SITE	Barium, Total	2	100%	0.032	0.032	0.005	0.157	0.028	0.035	ALL DETECTS	ALL DETECTS													
Water	UAQ	BKG	Bis(2-ethylhexyl)phthalate	3	0%	0.005	0.001	0.008	1.633	ALL ND	ALL ND	0.0001	0.015	2.501	0.005	12.49623	0.000064	2	3	2.13E-05	2.92	6.25E+00	6.314	0.999	6.314	NO
Water	UAQ	SITE	Bis(2-ethylhexyl)phthalate	2	50%	2.501	2.501	3.535	1.414	0.00105	0.00105	5	5													
Water	UAQ	BKG	Calcium, Total	4	100%	4.1	3.9	1.227	0.299	3	5.6	ALL DETECTS	ALL DETECTS	4.4	4.1	0	1.505529	1	4	3.76E-01	2.353	0.00E+00	0	0.489	2.353	NO
Water	UAQ	SITE	Calcium, Total	1	100%	4.4	4.4	0	0	4.4	4.4	ALL DETECTS	ALL DETECTS													
Water	UAQ	*BKG*	*Chloride*	3	*100%*	54.333	52	4.933	0.091	51	*60*	*ALL DETECTS*	*ALL DETECTS*	58	54.333	0	24.33449	1	3	8.11E+00	2.92	0.00E+00	0	1.288	2.920	NO
Water	UAQ	SITE	Chloride	1	100%	58	58	0	0	58	58	ALL DETECTS	ALL DETECTS													
Water	UAQ	BKG	Chromium, Total	3	0%	0.006	0.006	0	0	ALL ND	ALL ND	0.006	0.006	0.008	0.006	2.45E-07	0	2	3	0.00E+00	2.92	1.23E-07	6.314	5.714	6.314	**NC**
Water	UAQ	SITE	Chromium, Total	2	100%	0.008	0.008	0.000494975	0.063	0.0075	0.0082	ALL DETECTS	ALL DETECTS													
Water	UAQ	BKG	Cobalt, Total	3	33%	0.01	0.006	0.006	0.657	0.017	0.017	0.006	0.006	0.018	0.01	0.000121	0.000036	2	3	1.20E-05	2.92	6.05E-05	6.314	0.940	5.752	NO
Water	UAQ	SITE	Cobalt, Total	2	100%	0.018	0.018	0.011	0.629	0.01	0.026000001	ALL DETECTS	ALL DETECTS													
Water	UAQ	BKG	Diethylphthalate	3	33%	0.004	0.001	0.006	1.586	0.0005	0.0005	0.0001	0.01	*5.001*	*0.004*	49.9849	*0.000036*	2	3	1.20E-05	2.92	2.50E+01	6.314	1.000	6.314	NO
Water	UAQ	SITE	Diethylphthalate	2	50%	5.001	5.001	7.07	1.414	0.00148	0.00148	10	10													
Water	UAQ	BKG	Fluoride	3	100%	1.167	1.1	0.208	0.178	1	1.4	ALL DETECTS	ALL DETECTS	1.2	1.167	0	0.043264	1	3	1.44E-02	2.92	0.00E+00	0	0.275	2.920	NO
Water	UAQ	SITE	Fluoride	1	100%	1.2	1.2	0	0	1.2	1.2	ALL DETECTS	ALL DETECTS													
Water	UAQ	BKG	Magnesium, Total	3	67%	21.067	1.2	34.583	1.642	1.2	61	1	1	1.4	21.067	0	1195.984	1	3	3.99E+02	2.92	0.00E+00	0	-0.985	2.920	NO
Water	UAQ	SITE	Magnesium, Total	1	100%	1.4	1.4	0	0	1.4	1.4	ALL DETECTS	ALL DETECTS													
Water	UAQ	BKG	Nitrite+Nitrate (As N)	3	33%	0.537	0.5	0.446	0.831	0.11	0.11	0.5	1	1	0.537	0	0.198916	1	3	6.63E-02	2.92	0.00E+00	0	1.798	2.920	NO
Water	UAQ	*SITE*	*Nitrite+Nitrate (As N)*	1	0%	1	1	*0*	*0*	*ALL ND*	*ALL ND*	1	1													
Water	UAQ	BKG	pH	5	100%	8.52	8.63	0.165	0.019	8.34	8.66	ALL DETECTS	ALL DETECTS	8.53	8.52	0	0.027225	2	5	5.45E-03	2.92	0.00E+00	6.314	0.136	2.920	NO
Water	UAQ	SITE	pH	2	100%	8.53	8.53	0	0	8.53	8.53	ALL DETECTS	ALL DETECTS													
Water	UAQ	BKG	Phenol	3	33%	0.004	0.001	0.005	1.454	0.00113	0.00113	0.0001	0.01	5.001	0.004	49.9849	0.000025	2	3	8.33E-06	2.92	2.50E+01	6.314	1.000	6.314	NO
Water	UAQ	SITE	Phenol	2	0%	5.001	5.001	7.07	1.414	ALL ND	ALL ND	0.001	10													
Water	UAQ	BKG	Sodium, Total	3	100%	306.667	300	30.551	0.1	280	340	ALL DETECTS	ALL DETECTS	310	306.667	0	933.3636	1	3	3.11E+02	2.92	0.00E+00	0	0.189	2.920	NO
Water	UAQ	SITE	Sodium, Total	1	100%	310	310	0	0	310	310	ALL DETECTS	ALL DETECTS													

TABLE 3. STATISTICAL EVALUATION SUMMARY,
WESTERN REFINING COMPANY, GALLUP REFINERY, GALLUP, NEW MEXICO

Matrix	Area	Designation	Analyte	Number of Samples	Frequency of Detect	Sample Mean	Sample Median	Standard Deviation	Covariance	Minimum Detected Value	Maximum Detected Value	Minimum ND	Maximum ND	X_s	X_b	S_m^2	S_b^2	N_m	N_b	W_b	t_b	W_m	t_m	t^*	t_c	Significant Increase?
Water	UAQ	BKG	Specific Conductance	3	100%	1233.333	1200	57.735	0.047	1200	1300	ALL DETECTS	ALL DETECTS	1300	1233.333	0	3333.33	1	3	1.11E+03	2.92	0.00E+00	0	2.000	2.920	NO
Water	UAQ	SITE	Specific Conductance	1	100%	1300	1300	0	0	1300	1300	ALL DETECTS	ALL DETECTS													
Water	UAQ	BKG	Sulfate	3	100%	160	150	17.321	0.108	150	180	ALL DETECTS	ALL DETECTS	170	160	0	300.017	1	3	1.00E+02	2.92	0.00E+00	0	1.000	2.920	NO
Water	UAQ	SITE	Sulfate	1	100%	170	170	0	0	170	170	ALL DETECTS	ALL DETECTS													
Water	UAQ	BKG	Vanadium, Total	3	33%	0.051	0.05	0.002	0.034	0.053	0.053	0.05	0.05	0.05	0.051	0	0.000004	2	3	1.33E-06	2.92	0.00E+00	6.314	-0.866	2.920	NO
Water	UAQ	SITE	Vanadium, Total	2	0%	0.05	0.05	0	0	ALL ND	ALL ND	0.05	0.05													
																										Increasing Trend?
Water	UAQ		Arsenic, Total	5	20%	0.014	0.02	0.009	0.647	0.00297	0.00297	0.005	0.02													NO
Water	UAQ		*Barium, Total*	*6*	*67%*	*0.026*	*0.026*	*0.006*	*0.231*	*0.024*	*0.035*	*0.02*	*0.02*													NO
Water	UAQ		Bis(2-ethylhexyl)phthalate	5	20%	1.003	0.001	2.234	2.227	0.00105	0.00105	0.0001	5													NO
Water	UAQ		Calcium, Total	5	100%	4.16	4.4	1.071	0.258	3	5.6	ALL DETECTS	ALL DETECTS													NO
Water	UAQ		Chloride	4	100%	55.25	55	4.425	0.08	51	60	ALL DETECTS	ALL DETECTS													NO
Water	UAQ		Chromium, Total	5	40%	0.007	0.006	0.001	0.155	0.0075	0.0082	0.005	0.006													NO
Water	UAQ		Cobalt, Total	5	60%	0.013	0.01	0.009	0.657	0.01	0.026000001	0.006	0.006													NO
Water	UAQ		Diethylphthalate	5	40%	2.002	0.001	4.471	2.233	0.0005	0.00148	0.0001	10													NO
Water	UAQ		Fluoride	4	100%	1.175	1.15	0.171	0.145	1	1.4	ALL DETECTS	ALL DETECTS													NO
Water	UAQ		Magnesium, Total	4	75%	16.15	1.3	29.9	1.851	1.2	61	1	1													NO
Water	UAQ		Nitrite+Nitrate (As N)	4	25%	0.653	0.75	0.432	0.662	0.11	0.11	0.5	1													NO
Water	UAQ		pH	7	100%	8.523	8.53	0.135	0.016	8.34	8.66	ALL DETECTS	ALL DETECTS													NO
Water	UAQ		Phenol	5	20%	2.002	0.001	4.471	2.233	0.00113	0.00113	0.0001	10													NO
Water	UAQ		Sodium, Total	4	100%	307.5	305	25	0.081	280	340	ALL DETECTS	ALL DETECTS													NO
Water	UAQ		Specific Conductance	4	100%	1250	1250	57.735	0.046	1200	1300	ALL DETECTS	ALL DETECTS													NO
Water	UAQ		Sulfate	4	100%	162.5	160	15	0.092	150	180	ALL DETECTS	ALL DETECTS													NO
Water	UAQ		Vanadium, Total	5	20%	0.051	0.05	0.001	0.027	0.053	0.053	0.05	0.05													NO

Notes:
-- NC = Not Calculated due to too few samples in either "background" or "site" data set
-- BOLD values indicate a significant increase
-- TZ = Treatment Zone
-- ZOI = Zone of Incorporation
-- BG and BKG = Background
-- LAQ = Lower Aquifer
-- UAQ = Upper Aquifer
-- DN = Down Gradient
-- UP = Up Gradient
-- ND = Non-Detect
"--" = Not Applicable
-- X_s = mean of the sample
-- X_b = mean of the background
-- S_s^2 = variance of the sample
-- S_b^2 = variance of the background
-- N_m = number of samples
-- N_b = number of backgrounds
-- W_b = variance/number of backgrounds
-- W_m = variance/number of samples
-- t_b = t-table with (N_b-1) degrees of freedom at the 0.05 level of significance
-- t_m = t-table with (N_m-1) degrees of freedom at the 0.05 level of significance
-- t_c =comparison t-star
-- t^* = t star

FIGURES



Modified From: Precision Engineering, Inc.

EXPLANATION

⊕MW-4 LTU MONITORING WELL AND DESIGNATION (COMPLETED IN SONSELA AQUIFER)

⊕SMW-4 LTU EARLY DETECTION WELL AND DESIGNATION (COMPLETED IN CHINLE SLOPE WASH)

N

0 200'

NOTE:

BASE CADD FILE PROVIDED BY PRECISION ENGINEERING, DATED DECEMBER 18, 2006

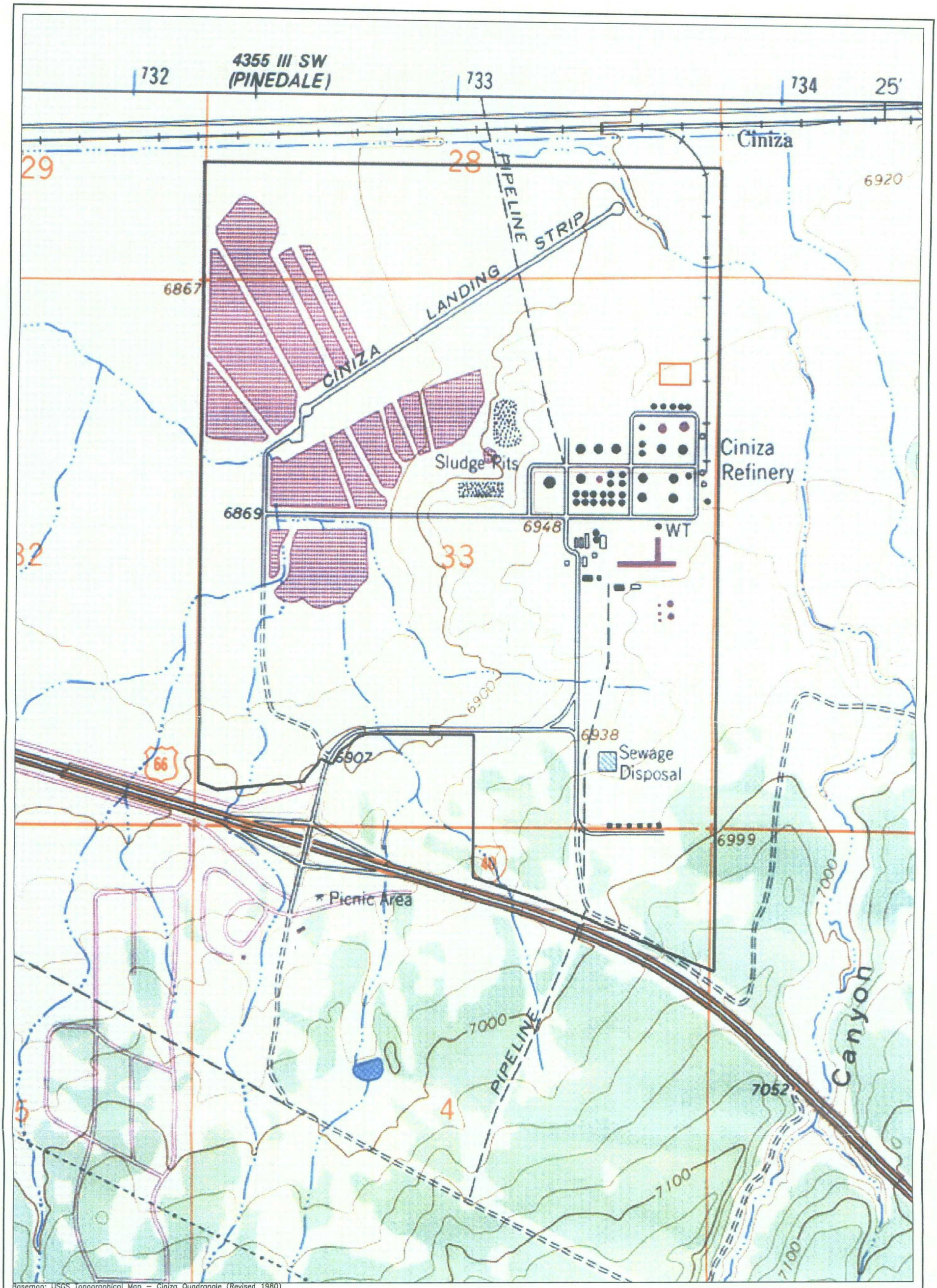
Trihydro CORPORATION
1252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

FIGURE 2

LTU GROUNDWATER MONITORING NETWORK

WESTERN REFINING COMPANY
GALLUP REFINERY
GALLUP, NEW MEXICO

Drawn By: REP	Checked By: GP	Scale: 1" = 200'	Date: 11/19/2010	File: 697LTU-GW-MON-201011



Basemap: USGS Topographical Map – Ciniza Quadrangle (Revised 1980)

EXPLANATION

PROPERTY BOUNDARY

SOIL INVESTIGATION AREA

N

0 ~1,000'

Trihydro CORPORATION
1252 Commerce Drive
Laramie, Wyoming 82070
www.trihydro.com
(P) 307/745.7474 (F) 307/745.7729

FIGURE 3

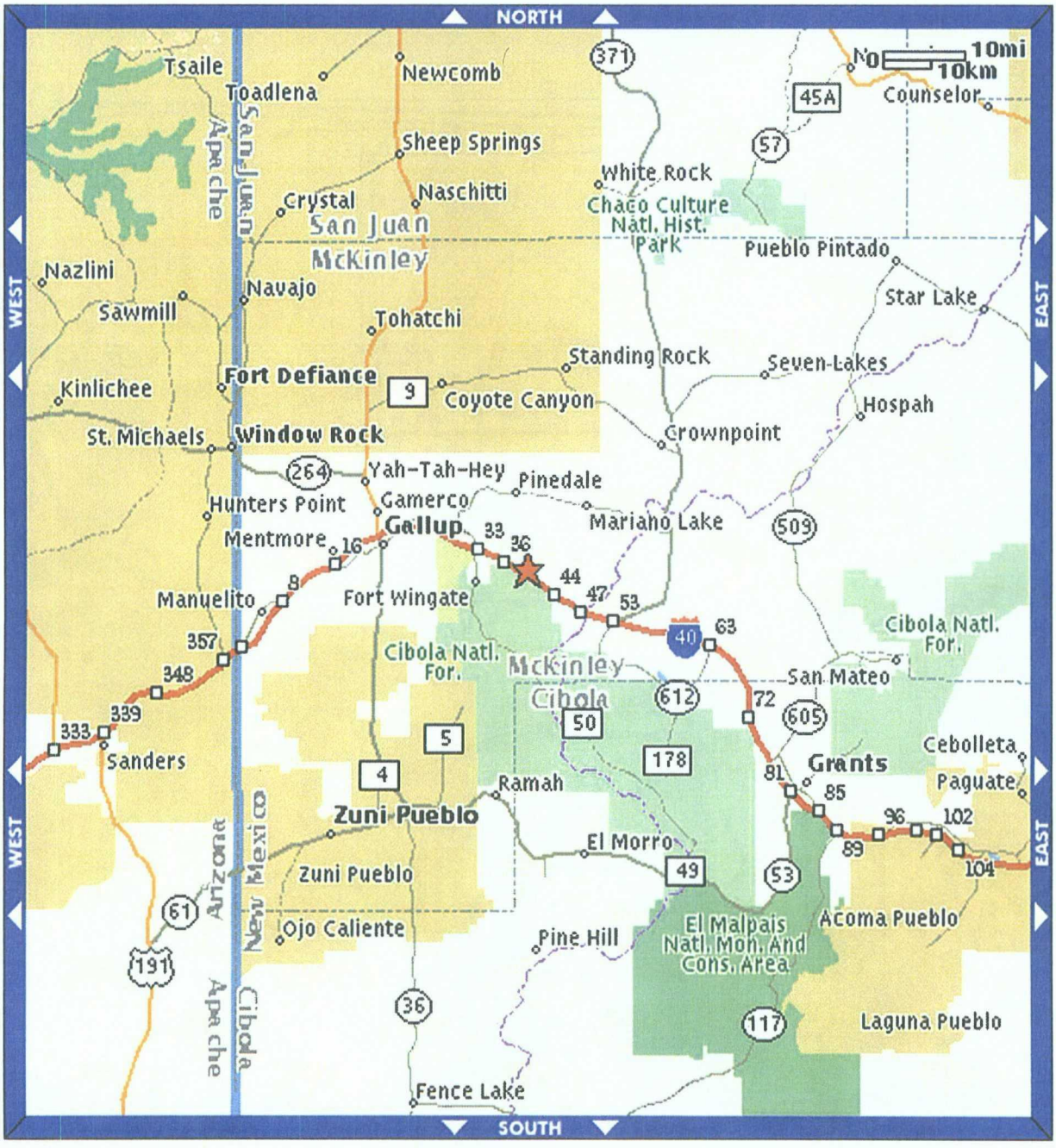
TOPOGRAPHIC MAP OF GALLUP REFINERY SITE

WESTERN REFINING COMPANY
GALLUP REFINERY
GALLUP, NEW MEXICO

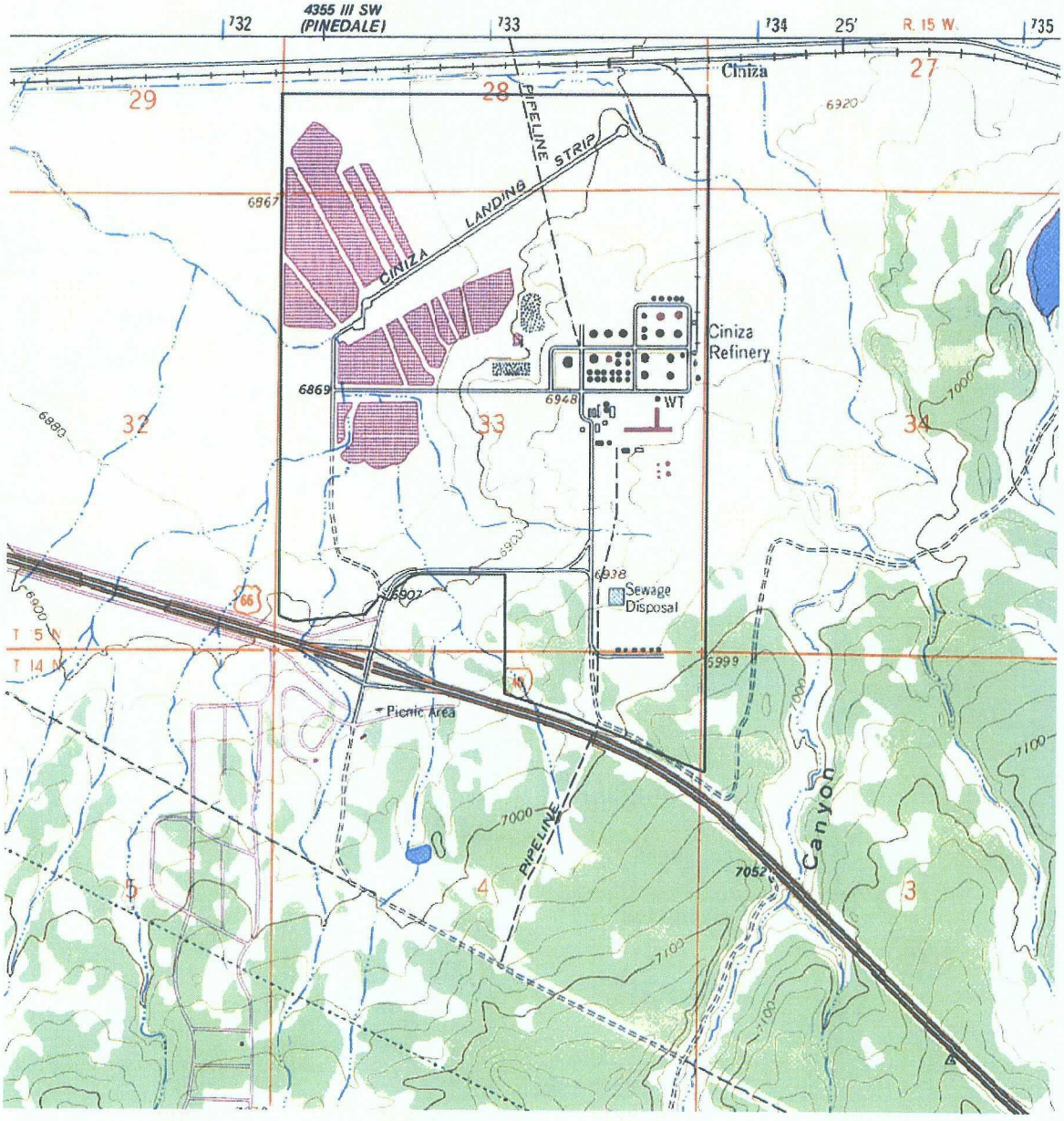
Drawn By: REP	Checked By: RM	Scale: 1" = ~1,000'	Date: 12/22/10	File: 697TOPO-201012

APPENDIX A

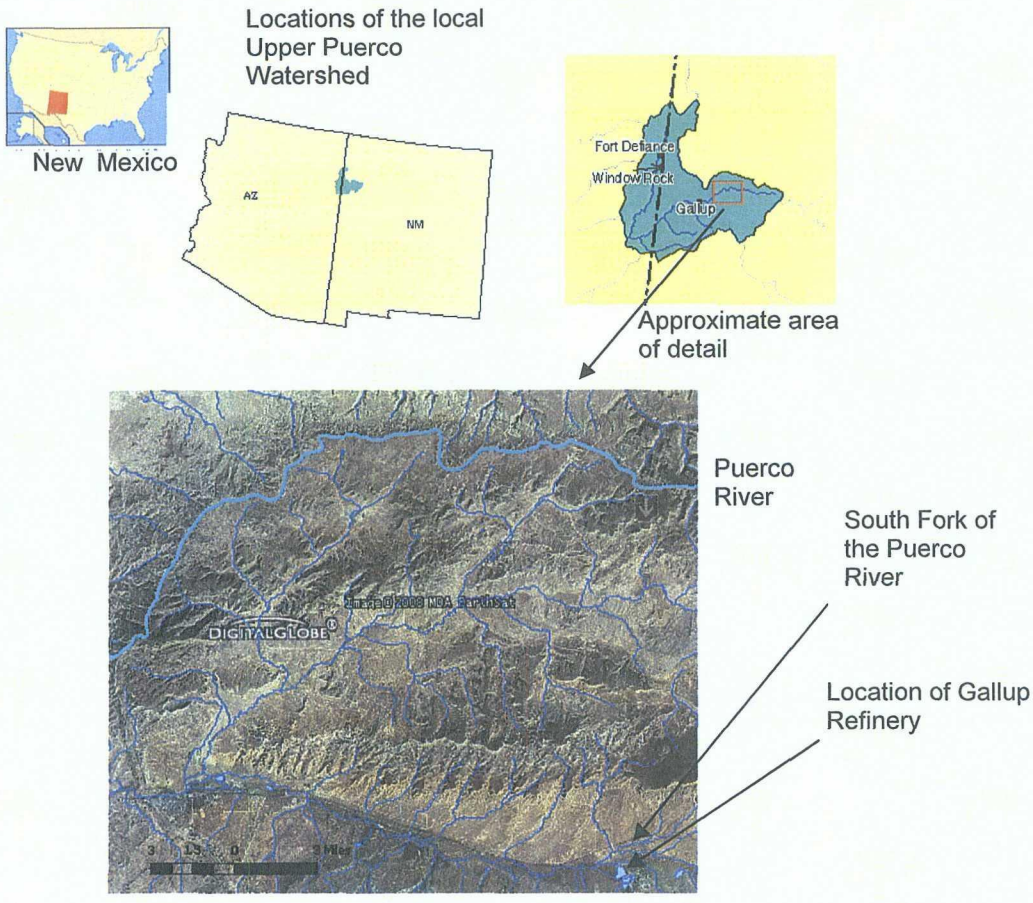
GALLUP FACILITY MAPS



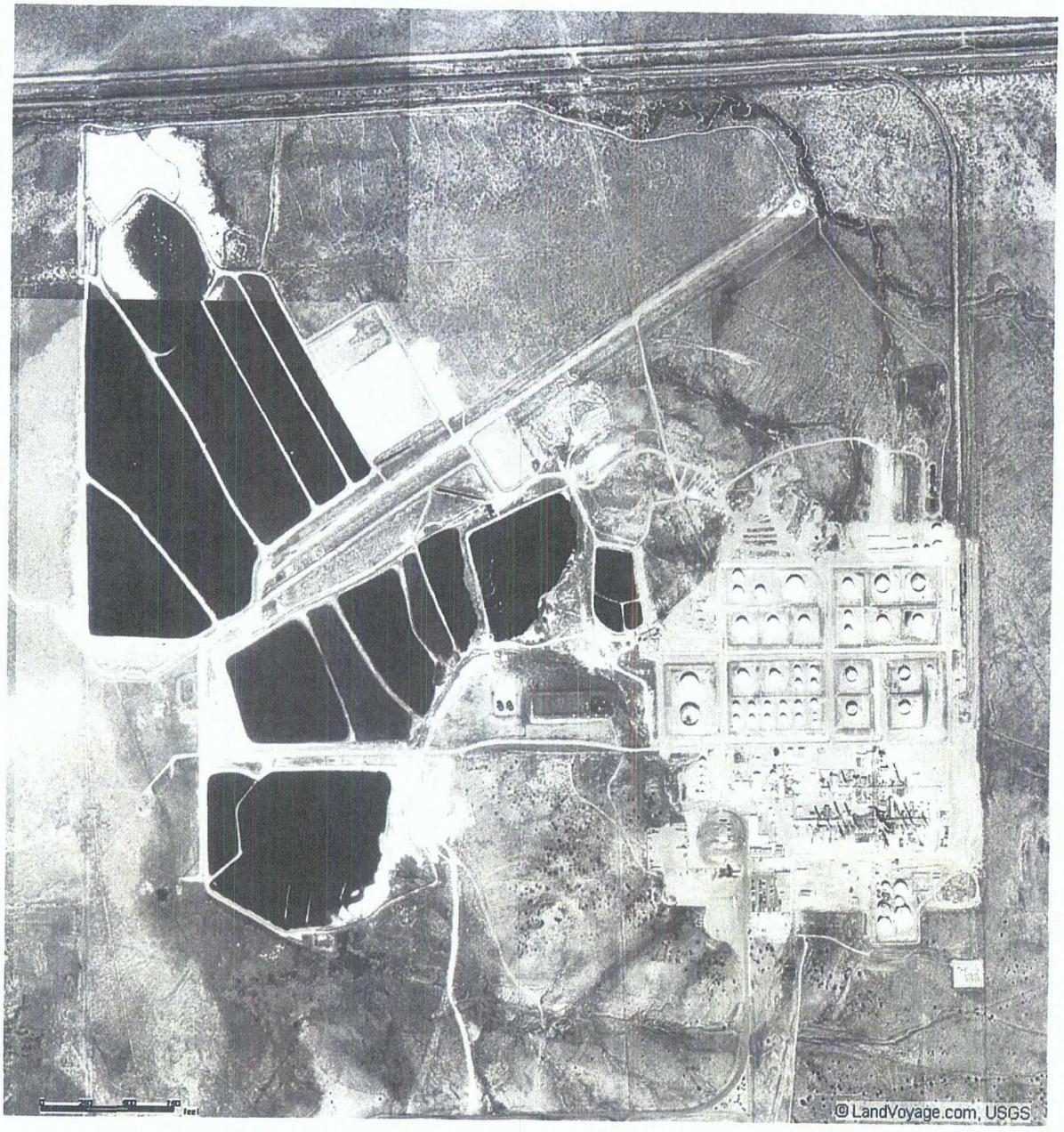
APPENDIX A-1. REGIONAL MAP SHOWING THE LOCATION OF THE GALLUP REFINERY (RED STAR ALONG INTERSTATE-40, 20 MILES EAST OF THE CITY OF GALLUP)



APPENDIX A-2. TOPOGRAPHIC MAP OF THE GALLUP REFINERY SITE
USGS TOPOGRAPHICAL MAP - GALLUP QUADRANGLE (REVISED 1980)



APPENDIX A-4. REGIONAL SCALE: FLOW LINES AND MAJOR SURFACE WATER BODIES (FROM: EPA ENVIROMAPPER - HTTP://MAP24.EPA.GOV/EMR/?ZOOMTOWATERSHED=15020006) NORTH IS TOWARDS THE TOP OF THE PAGE.

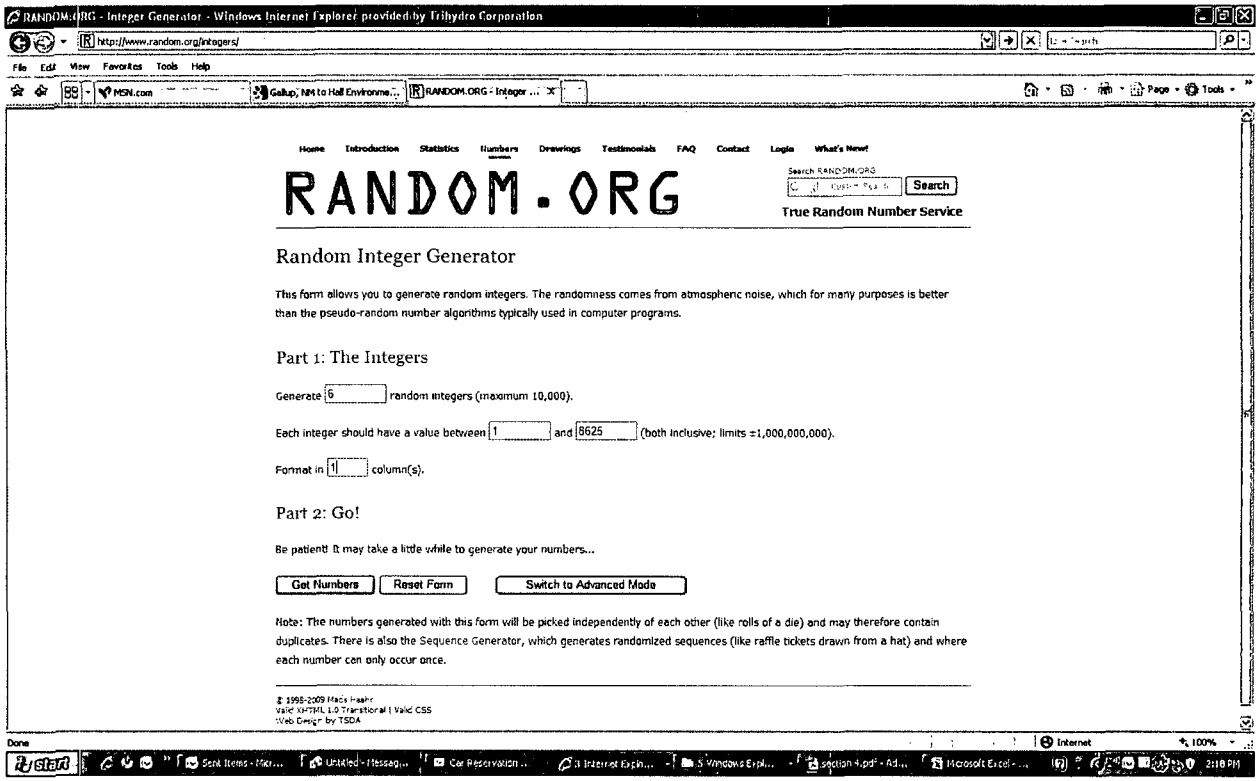


APPENDIX A-3. AERIAL PHOTOGRAPH OF THE GALLUP REFINERY

APPENDIX A-5. LOCALIZED SCALE: FLOW LINES AND MAJOR SURFACE WATER BODIES (FROM: EPA ENVIROMAPPER - HTTP://MAP24.EPA.GOV/EMR/?ZOOMTOWATERSHED=15020006) NORTH IS TOWARDS THE TOP OF THE PAGE. THE POND TO THE EAST IS JON MYERS' LIVESTOCK POND.

APPENDIX B

RANDOM.ORG DOCUMENTATION


RANDOM.ORG - Integer Generator - Windows Internet Explorer provided by Trihydro Corporation
http://www.random.org/integers/
Home Introduction Statistics Numbers Drawings Testimonials FAQ Contact Login What's New!
RANDOM.ORG
Search
True Random Number Service
Random Integer Generator
This form allows you to generate random integers. The randomness comes from atmospheric noise, which for many purposes is better than the pseudo-random number algorithms typically used in computer programs.
Part 1: The Integers
Generate 6 random integers (maximum 10,000).
Each integer should have a value between 1 and 8625 (both inclusive; limits ±1,000,000,000).
Format in 1 column(s).
Part 2: Go!
Be patient! It may take a little while to generate your numbers...
Get Numbers
Reset Form
Switch to Advanced Mode
Note: The numbers generated with this form will be picked independently of each other (like rolls of a die) and may therefore contain duplicates. There is also the Sequence Generator, which generates randomized sequences (like raffle tickets drawn from a hat) and where each number can only occur once.
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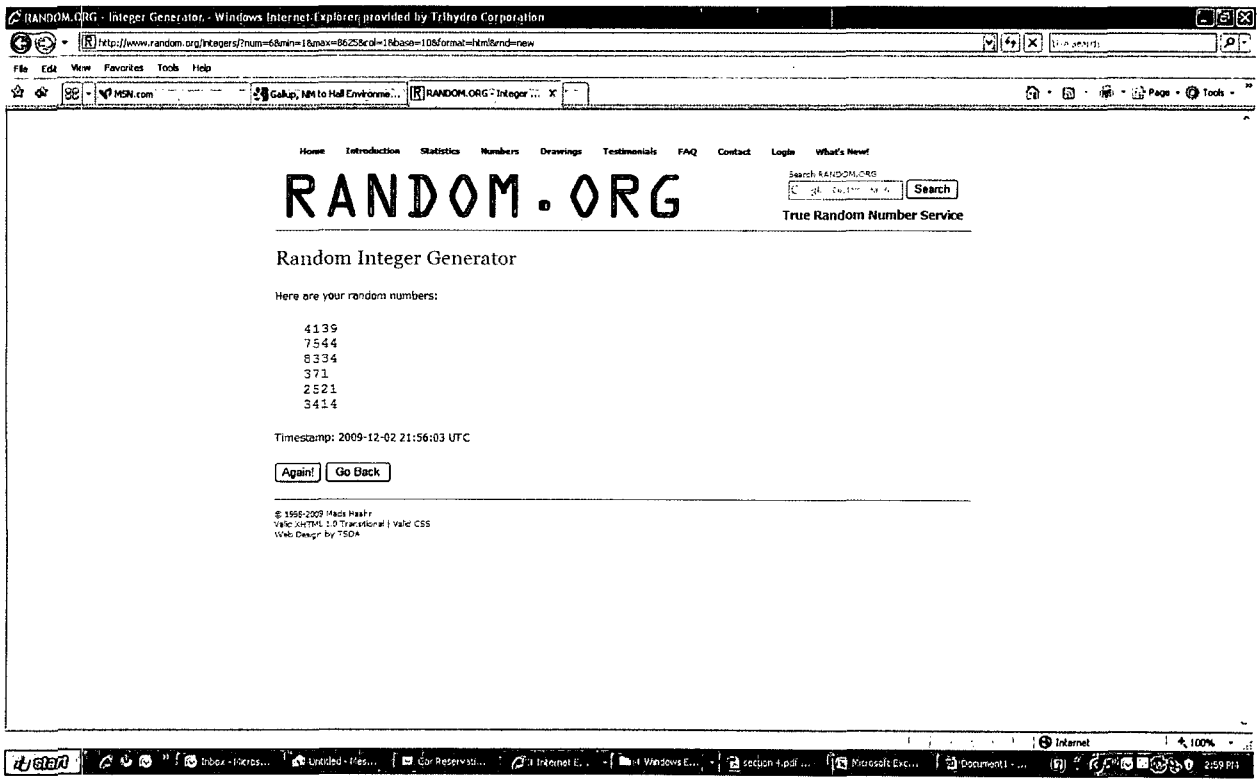
Valid XHTML 1.0 Transitional | Valid CSS
Web Design by TSDA


RANDOM.ORG - Integer Generator - Windows Internet Explorer provided by Trihydro Corporation
http://www.random.org/integers/?num=6&min=1&max=8625&col=1&base=10&format=html&rnd=new
Home Introduction Statistics Numbers Drawings Testimonials FAQ Contact Login What's New!
RANDOM.ORG
Search
True Random Number Service
Random Integer Generator
Here are your random numbers:
4139
7544
8334
371
2521
3414
Timestamp: 2009-12-02 21:56:03 UTC
Again!
Go Back
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Valid XHTML 1.0 Transitional | Valid CSS
Web Design by TSDA

APPENDIX C

PHOTO DOCUMENTATION

ATTACHMENT C. PHOTO DOCUMENTATION

PHOTO 1. SAMPLE LOCATION 371 (STAKE).

PHOTO 2. SAMPLE LOCATION 3414 (STAKE).

PHOTO 3. SAMPLE LOCATION 4139 (STAKE WITH TAPE MEASURE FOR VISIBILITY).

PHOTO 4. SAMPLE LOCATION 2521 (STAKE).

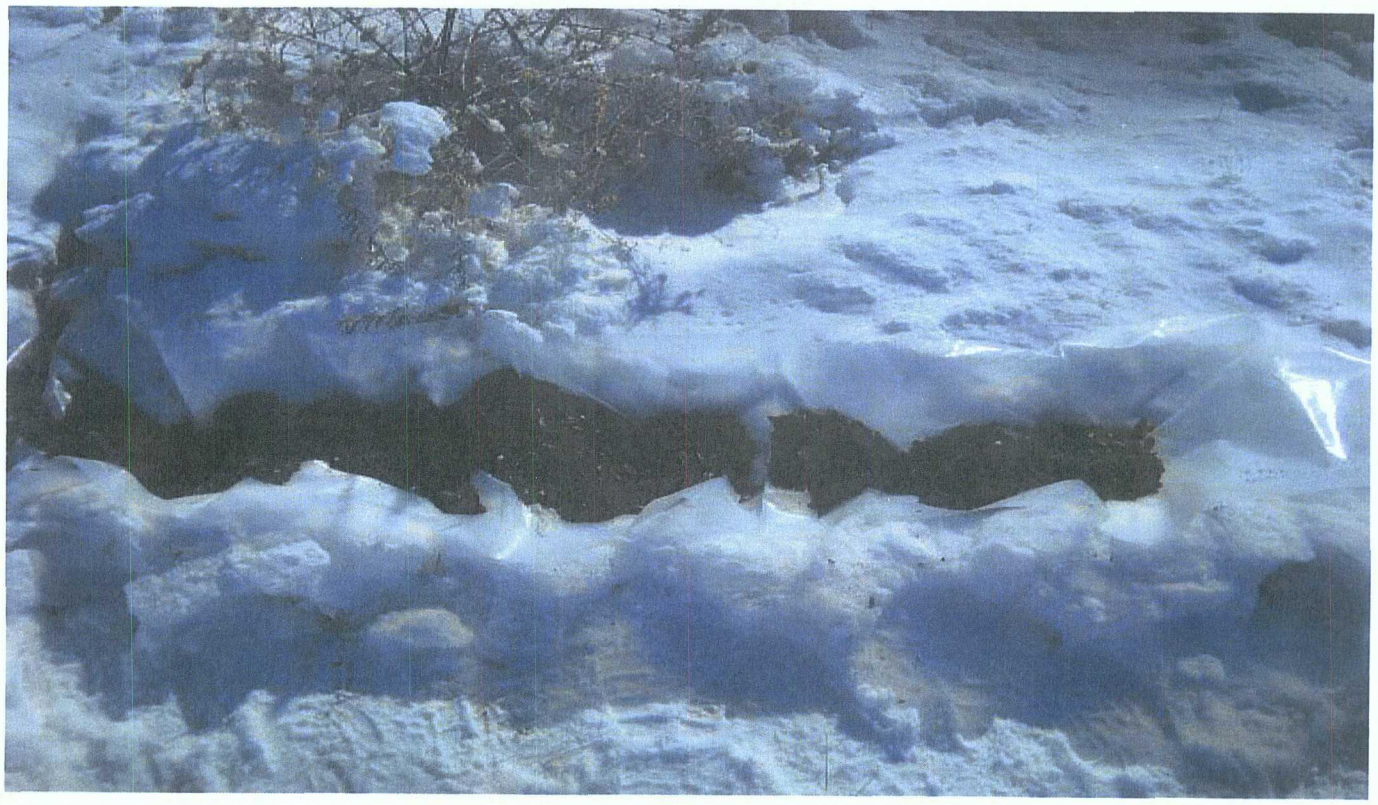

PHOTO 9. CUTTINGS FROM AUGER AT SAMPLE LOCATION 2521, SHALLOW ON LEFT, DEEP ON RIGHT.

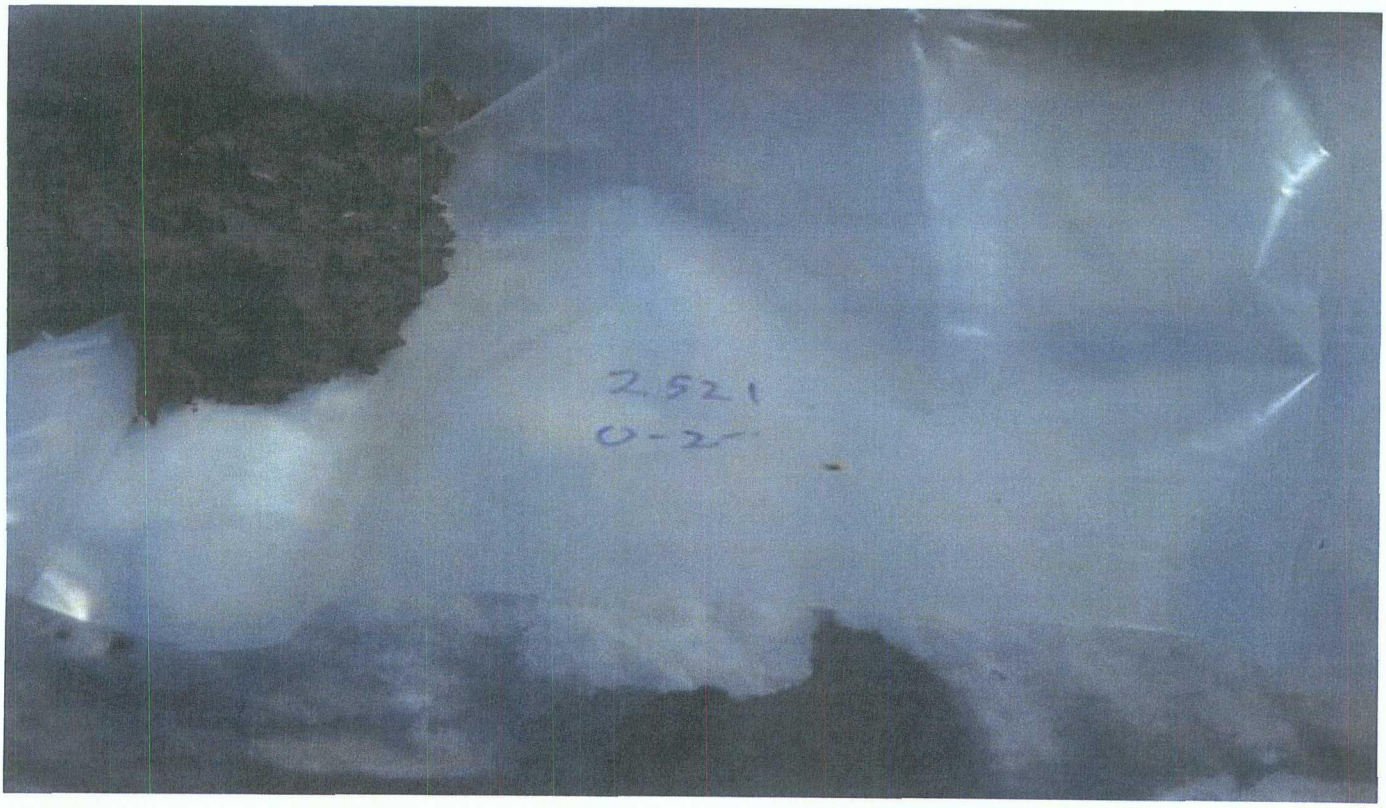

PHOTO 10. CLOSE UP OF CUTTINGS FROM 2521.

PHOTO 11. AUGER IN BOREHOLE AT 2 FT BGS AT SAMPLE LOCATION 2521.

PHOTO 12. 2.5" SAMPLER WITH CUTTINGS FROM 2 TO 4 FT BGS AT SAMPLE LOCATION 8334.

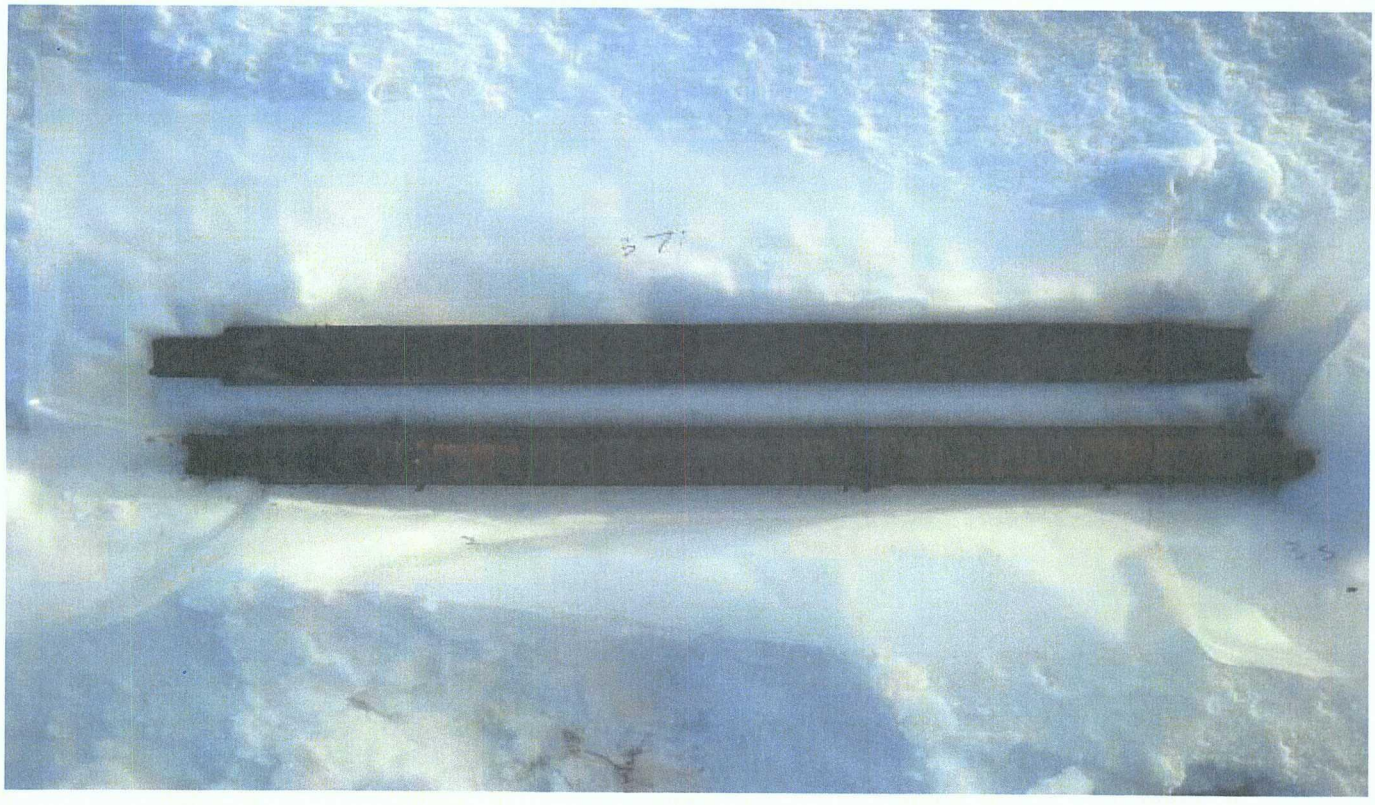

PHOTO 13. 1.5" SAMPLER WITH CUTTINGS FROM 2 TO 3.5 FT BGS AT SAMPLE LOCATION 371.

APPENDIX D

FIELD BORING LOGS

TRIHYDRO CORPORATION

FIELD BORING LOG

Project & Project Number:	Western Refining 697-038-001	Date:	12/9/2009 - 12/11/2009
Project Location/Address:	Gallup Refinery	Drilling Company:	Enviro-Drill
Client:	Western Refining	Driller:	Brad Dennisson
Weather:	Cold, ~ 25 degrees, wind out of west	Rig Type / Method:	GeoProbe Hurricane
Logged by:	Grant Price	Sample Method:	Hand auger and direct push with split spoon
		Surface Elevation:	NA Casing Elevation: NA GE Elevation: NA
Logger's Signature:		Equipment List:	GeoProbe Hurricane and stainless steel hand auger

BORING ID: 8334

Boring Location: LTU Cell 2

Interval	Texture - Grain Size Major	Texture - Grain Size Minor	Color Major	Color Modifier	Plasticity	Consistency	Moisture	Odor	PID Interval(ft)/ Reading(ppm)	Additional Comments (Odor descriptor, sheen, nodules, structure, vegitation, etc.)
0 - 4"	GVL - F M C (Sand) - F M C Silt Clay	Grvlly Sandy (Silty) (Clayey)	Black Gray - L M D (Brn) - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate (Low) Non --	Very Soft Soft Firm Hard Very Hard	(Dry) Moist Saturated -- --	Strong Moderate Slight (None Noted) --		Some roots. Only a trace of clay. Medium dense material.
4" - 12"	GVL - F M C Sand - F M C (Silt) Clay	Grvlly (Sandy) Silty Clayey	Black Gray - L M D (Brn) - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low (Non) --	Very Soft Soft Firm Hard Very Hard	(Dry) Moist Saturated -- --	Strong Moderate Slight (None Noted) --	1/1.3	Sand is fine grained. Material is loose.
12" - 16"	GVL - F M C Sand - F M C (Silt) Clay	Grvlly (Sandy) Silty Clayey	Black Gray - L M D (Brn) - L M D Red - L M D Other	Red Brown (Gray) (Green) Rust Yellow Other % 25	High Moderate Low (Non) --	Very Soft Soft Firm Hard Very Hard	(Dry) Moist Saturated -- --	Strong Moderate Slight (None Noted)		Sand is fine grained. 25% light greyish green chalky/powdery substance. Material is loose. 12" is likely the topsoil-ZOI surface.
16" - 19"	GVL - F M C Sand - F M C (Silt) Clay	Grvlly Sandy Silty (Clayey)	Black Gray - L M D (Brn) - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate (Low) (Non) --	Very Soft Soft (Firm) Hard Very Hard	Dry (Moist) Saturated -- --	Strong Moderate Slight (None Noted) --		
19" - 25"	GVL - F M C Sand - F M C Silt (Clay)	Grvlly (Sandy) (Silty) Clayey	Black Gray - L M D (Brn) - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate (Low) Non --	Very Soft Soft (Firm) (Hard) Very Hard	Dry (Moist) Saturated -- --	Strong Moderate Slight (None Noted) --		Some sand, fine grained.
25" - 5.5'	GVL - F M C Sand - F M C Silt (Clay)	Grvlly (Sandy) Silty Clayey	Black Gray - L M D (Brn) - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate (Low) Non --	Very Soft Soft (Firm) (Hard) Very Hard	(Dry) Moist Saturated -- --	Strong Moderate Slight (None Noted) --	3/0.8 5/1.2	Only a trace of sand, fine grained.
5.5' - 6'	GVL - F M C Sand - F M C Silt (Clay)	Grvlly (Sandy) Silty Clayey	Black Gray - L M D (Brn) - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate (Low) Non --	Very Soft Soft Firm (Hard) Very Hard	(Dry) Moist Saturated -- --	Strong Moderate (Slight) None Noted --		Some sand, fine grained. Slight HC odor. TD = 6'

Sample Collected: yes, 2

Sample ID: ZOI-2-8334-120909 / TZ-2-8334-121109

Date: 12-09-2009 / 12-11-2009

Time: 9:15 / 13:30

Depth: 21" - 25" / 4.5' - 5.75'

Number/Size of Containers: Three 4 oz. jars for each sample

Analysis to be Performed: Modified Skinner List (VOCs 8260, SVOCs 8270, GRO/DRO 8015, Metals 6010, Hg 7470/7471, Cyanide 353.3/9010,9014)

Duplicate Collected: Yes, MS/MSD from ZOI sample.

Notes: 0 - 25" with hand auger, 25" - 6' with GeoProbe.

TRIHYDRO CORPORATION

FIELD BORING LOG

Project & Project Number:	Western Refining 697-038-001	Date:	12/9/2009 - 12/11/2009
Project Location/Address:	Gallup Refinery	Drilling Company:	Enviro-Drill
Client:	Western Refining	Driller:	Brad Dennisson
Weather:	Cold, ~ 25 degrees, wind out of west	Rig Type / Method:	GeoProbe Hurricane
Logged by:	Grant Price	Sample Method:	Direct push with split spoon
Logger's Signature:		Surface Elevation:	NA Casing Elevation: NA GE Elevation: NA
		Equipment List:	GeoProbe Hurricane

BORING ID: 7544

Boring Location: LTU Cell 3

Interval	Texture - Grain Size Major	Texture - Grain Size Minor	Color Major	Color Modifier	Plasticity	Consistency	Moisture	Odor	PID Interval(ft)/ Reading(ppm)	Additional Comments (Odor descriptor, sheen, nodules, structure, vegitation, etc.)
0 - 8"	GVL - F M C Sand - F M C (Silt) Clay	Grvlly Sandy Silty (Clayey)	Black Gray - L M D (Brn - L M D) Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High (Moderate) Low Non --	Very Soft (Soft) Firm Hard Very Hard	Dry (Moist) Saturated --	Strong Moderate Slight (None Noted)		Topsoil/ZOI interface presumed to be 8" bgs.
8" - 24"	GVL - F M C Sand - F M C Silt (Clay)	(Grvlly) (Sandy) (Silty) Clayey	Black Gray - L M D (Brn - L M D) Red - L M D Other	Red Brown (Gray) Green Rust (Yellow) Other %	High Moderate (Low) Non --	Very Soft Soft (Firm) Hard Very Hard	(Dry) Moist Saturated --	Strong Moderate Slight (None Noted)	1/0.1	1" thick layer of white/yellow powdery substance at 1' bgs, possibly sulfer. Some gravel, up to 1.5" in longest deminsion. Only a trace of sand, fine grained. Some dark brown staining.
24" - 3.5'	GVL - F M C Sand - F M C Silt (Clay)	(Grvlly) (Sandy) Silty Clayey	Black Gray - L M D (Brn - L M D) Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate (Low) (Non) --	Very Soft Soft (Firm) (Hard) Very Hard	(Dry) Moist Saturated --	Strong Moderate Slight (None Noted)	3/0.3	Only a trace of sand, fine grained.
3.5' - 5'	GVL - F M C Sand - F M C Silt (Clay)	(Grvlly) (Sandy) Silty Clayey	Black Gray - L M D (Brn - L M D) Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate (Low) Non --	Very Soft Soft Firm (Hard) Very Hard	Dry (Moist) Saturated --	Strong Moderate Slight (None Noted)		50% recovery. Only a trace of sand, fine grained.
5' - 6'	GVL - F M C Sand - F M C Silt (Clay)	(Grvlly) (Sandy) Silty Clayey	Black Gray - L M D (Brn - L M D) Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low (Non) --	Very Soft Soft Firm (Hard) (Very Hard)	(Dry) Moist Saturated --	Strong Moderate Slight (None Noted)	5/0.4	Slightly sandy, fine grained. TD = 6'
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non --	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated --	Strong Moderate Slight None Noted		
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non --	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated --	Strong Moderate Slight None Noted		

Sample Collected: yes, 2

Sample ID: ZOI-3-7544-121109 / TZ-3-7544-121109

Date: 12-11-2009 / 12-11-2009

Time: 14:00 / 14:30

Depth: 20" - 30" / 4.5' - 5.75'

Number/Size of Containers: Three 4 oz. jars for each sample

Analysis to be Performed: Modified Skinner List (VOCs 8260, SVOCs 8270, GRO/DRO 8015, Metals 6010, Hg 7470/7471, Cyanide 353.3/9010,9014)

Duplicate Collected: No

Notes: Entire location sampled with GeoProbe, refusal with hand auger at ~ 1 ft bgs.

TRIHYDRO CORPORATION

FIELD BORING LOG

Project & Project Number:	Western Refining 697-038-001	Date:	12/9/2009 - 12/11/2009
Project Location/Address:	Gallup Refinery	Drilling Company:	Enviro-Drill
Client:	Western Refining	Driller:	Brad Dennisson
Weather:	Cold, ~ 25 degrees, wind out of west	Rig Type / Method:	GeoProbe Hurricane
Logged by:	Grant Price	Sample Method:	Hand auger and direct push with split spoon
		Surface Elevation:	NA Casing Elevation: NA GE Elevation: NA
Logger's Signature:		Equipment List:	GeoProbe Hurricane and stainless steel hand auger

BORING ID: 4139 **Boring Location: LTU Cell 2**

Interval	Texture - Grain Size Major	Texture - Grain Size Minor	Color Major	Color Modifier	Plasticity	Consistency	Moisture	Odor	PID Interval(ft)/ Reading(ppm)	Additional Comments (Odor descriptor, sheen, nodules, structure, vegitation, etc.)
0 - 6"	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non --	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -- --	Strong Moderate Slight None Noted --		Sand is fine grained, some clay.
6" - 12"	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non --	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -- --	Strong Moderate Slight None Noted --	1/1.7	Sand is fine grained. Material is loose. 12" bgs believed to be topsoil/ZOI interface.
12" - 25"	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non --	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -- --	Strong Moderate Slight None Noted --		Some silt. Only a trace of sand, fine grained. Slight HC odor.
25" - 4'	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non --	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -- --	Strong Moderate Slight None Noted --	3/0.9	Some silt. Only a trace of sand, fine grained. Slight HC odor.
4' - 6'	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non --	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -- --	Strong Moderate Slight None Noted --	5/1.0	Only a trace of silt and sand. Sand is fine grained. TD = 6'.
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non --	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -- --	Strong Moderate Slight None Noted --		
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non --	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated -- --	Strong Moderate Slight None Noted --		

Sample Collected: yes, 2

Sample ID: ZOI-2-4139-120909 / TZ-2-4139-121109

Date: 12-09-2009 / 12-11-2009

Time: 10:30 / 13:05

Depth: 21" - 25" / 4.5' - 5.5'

Number/Size of Containers: Three 4 oz. jars for each sample

Analysis to be Performed: Modified Skinner List (VOCs 8260, SVOCs 8270, GRO/DRO 8015, Metals 6010, Hg 7470/7471, Cyanide 353.3/9010,9014)

Duplicate Collected: Yes, BD120909 collected from ZOI interval.

Notes: 0 - 25" with hand auger, 25" - 6' with GeoProbe.

TRIHYDRO CORPORATION

FIELD BORING LOG

Project & Project Number:	Western Refining 697-038-001	Date:	12/9/2009 - 12/11/2009
Project Location/Address:	Gallup Refinery	Drilling Company:	Enviro-Drill
Client:	Western Refining	Driller:	Brad Dennisson
Weather:	Cold, ~ 25 degrees, wind out of west	Rig Type / Method:	GeoProbe Hurricane
Logged by:	Grant Price	Sample Method:	Hand auger and direct push with split spoon
Logger's Signature:		Surface Elevation:	NA Casing Elevation: NA GE Elevation: NA
		Equipment List:	GeoProbe Hurricane and stainless steel hand auger

BORING ID: 3414

Boring Location: LTU Cell 3

Interval	Texture - Grain Size Major	Texture - Grain Size Minor	Color Major	Color Modifier	Plasticity	Consistency	Moisture	Odor	PID Interval(ft)/ Reading(ppm)	Additional Comments (Odor descriptor, sheen, nodules, structure, vegitation, etc.)
0 - 10"	GVL - F M C Sand - F M C (Silt) Clay	Grvlly (Sandy) Silty (Clayey)	Black Gray - L M D (Brn - L M D) Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low (Non) --	Very Soft Soft Firm Hard Very Hard	(Dry) Moist Saturated --	Strong Moderate Slight (None Noted)		Some sand, fine grained. Only a trace of clay. Material is loose. 10" bgs presumed *to be topsoil/ZOI interface.*
10" - 20"	GVL - F M C Sand - F M C (Silt) Clay	(Grvlly) (Sandy) Silty Clayey	Black Gray - L M D (Brn - L M D) Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low (Non) --	Very Soft Soft Firm Hard Very Hard	(Dry) Moist Saturated --	Strong Moderate Slight (None Noted)	1/0.6	Gravel is fine grained. Some sand, fine grained. Material is loose.
20" - 24"	GVL - F M C Sand - F M C (Silt) Clay	Grvlly (Sandy) Silty (Clayey)	Black Gray - L M D (Brn - L M D) Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate (Low) Non --	Very Soft (Soft) Firm Hard Very Hard	(Dry) Moist Saturated --	Strong Moderate Slight (None Noted)		Some clay. Some sand, fine grained. Material is loose/soft.
24" - 3.25'	GVL - F M C Sand - F M C Silt (Clay)	Grvlly (Sandy) (Silty) Clayey	Black Gray - L M D (Brn - L M D) Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate (Low) Non --	Very Soft (Soft) (Firm) Hard Very Hard	(Dry) Moist Saturated --	Strong Moderate Slight (None Noted)	3/0.6	Sand is fine grained.
3.25' - 5.5'	GVL - F M C Sand - F M C Silt (Clay)	Grvlly Sandy (Silty) Clayey	Black Gray - L M D (Brn - L M D) Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate (Low) Non --	Very Soft Soft (Firm) (Hard) Very Hard	(Dry) Moist Saturated --	Strong Moderate Slight (None Noted)	5/0.8	Some silt. Silt content decreases with depth. Moist at 4.5' bgs. Refusal at 5.5' bgs.
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non --	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated --	Strong Moderate Slight None Noted		
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non --	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated --	Strong Moderate Slight None Noted		

Sample Collected: yes, 2

Sample ID: ZOI-3-3414-120909 / TZ-3-3414-121109

Date: 12-09-2009 / 12-11-2009

Time: 11:50 / 12:35

Depth: 20" - 24" / 4.5' - 5.5'

Number/Size of Containers: Three 4 oz. jars for each sample

Analysis to be Performed: Modified Skinner List (VOCs 8260, SVOCs 8270, GRO/DRO 8015, Metals 6010, Hg 7470/7471, Cyanide 353.3/9010,9014)

Duplicate Collected: No.

Notes: 0 - 24" with hand auger, 24" - 6' with GeoProbe.

TRIHYDRO CORPORATION
FIELD BORING LOG

Project & Project Number:	Western Refining 697-038-001	Date:	12/9/2009 - 12/11/2009
Project Location/Address:	Gallup Refinery	Drilling Company:	Enviro-Drill
Client:	Western Refining	Driller:	Brad Dennisson
Weather:	Cold, ~ 25 degrees, wind out of west	Rig Type / Method:	GeoProbe Hurricane
Logged by:	Grant Price	Sample Method:	Hand auger and direct push with split spoon
		Surface Elevation:	NA Casing Elevation: NA GE Elevation: NA
Logger's Signature:		Equipment List:	GeoProbe Hurricane and stainless steel hand auger

BORING ID: 2521

Boring Location: LTU Cell 1

Interval	Texture - Grain Size Major	Texture - Grain Size Minor	Color Major	Color Modifier	Plasticity	Consistency	Moisture	Odor	PID Interval(ft)/ Reading(ppm)	Additional Comments (Odor descriptor, sheen, nodules, structure, vegitation, etc.)
0 - 10"	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non –	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated – –	Strong Moderate Slight None Noted –		Sand silt mixture (~50%/50%). Material is loose. Roots in upper 4". 10" is likely topsoil/ZOI interface.
10" - 24"	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non –	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated – –	Strong Moderate Slight None Noted –	1/2.2	Some silt. Becomes harder with depth.
24" - 6'	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non –	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated – –	Strong Moderate Slight None Noted –	3/0.4 5/0.6	Trace of silt and sand. Sand is fine grained. TD = 6'.
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non –	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated – –	Strong Moderate Slight None Noted –		
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non –	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated – –	Strong Moderate Slight None Noted –		
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non –	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated – –	Strong Moderate Slight None Noted –		
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non –	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated – –	Strong Moderate Slight None Noted –		

Sample Collected: yes, 2

Sample ID: ZOI-1-2521-120909 / TZ-1-2521-121109

Date: 12-09-2009 / 12-11-2009

Time: 13:40 / 15:20

Depth: 20" - 24" / 4.5' - 5.75'

Number/Size of Containers: Three 4 oz. jars for each sample

Analysis to be Performed: Modified Skinner List (VOCs 8260, SVOCs 8270, GRO/DRO 8015, Metals 6010, Hg 7470/7471, Cyanide 353.3/9010,9014)

Duplicate Collected: No.

Notes: 0 - 24" with hand auger, 24" - 6' with GeoProbe.

TRIHYDRO CORPORATION

FIELD BORING LOG

Project & Project Number:	Western Refining 697-038-001	Date:	12/8/2009 - 12/11/2009
Project Location/Address:	Gallup Refinery	Drilling Company:	Enviro-Drill
Client:	Western Refining	Driller:	Brad Dennisson
Weather:	Cold, ~ 32 degrees, wind out of west	Rig Type / Method:	GeoProbe Hurricane
Logged by:	Grant Price	Sample Method:	Hand auger and direct push with split spoon
Logger's Signature:		Surface Elevation:	NA Casing Elevation: NA GE Elevation: NA
		Equipment List:	GeoProbe Hurricane and stainless steel hand auger

BORING ID: 371

Boring Location: LTU Cell 1

Interval	Texture - Grain Size Major	Texture - Grain Size Minor	Color Major	Color Modifier	Plasticity	Consistency	Moisture	Odor	PID Interval(ft)/ Reading(ppm)	Additional Comments (Odor descriptor, sheen, nodules, structure, vegitation, etc.)
0 - 4"	GVL - F M C Sand - F M C (Silt) Clay	Grvlly (Sandy) (Silty) Clayey	Black Gray - L M D (Brn) L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate (Low) Non –	Very Soft Soft (Firm) Hard Very Hard	Dry (Moist) Saturated – –	Strong Moderate Slight (None Noted) –		*Sand is fine grained.*
4" - 10"	GVL - F M C Sand - F M C (Silt) Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D (Brn) - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low (Non) –	Very Soft Soft Firm Hard Very Hard	(Dry) Moist Saturated – –	Strong Moderate Slight (None Noted) –		Loose material. No obvious distinction between topsoil and ZOI.
10" - 24"	GVL - F M C Sand - F M C Silt (Clay)	Grvlly Sandy (Silty) Clayey	Black Gray - L M D (Brn) - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low (Non) –	Very Soft Soft Firm (Hard) Very Hard	(Dry) Moist Saturated – –	Strong Moderate Slight (None Noted) –	1/0.0	Surfaces in dry, brittle chunks.
24" - 36"	GVL - F M C Sand - F M C Silt (Clay)	Grvlly (Sandy) (Silty) Clayey	Black Gray - L M D (Brn) - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low (Non) –	Very Soft Soft Firm Hard (Very Hard)	(Dry) Moist Saturated – –	Strong Moderate Slight (None Noted) –	3/0.5	*Some silt. Only slightly sandy. Sand is fine grained. Very hard drilling.*
36" - 6'	GVL - F M C Sand - F M C Silt (Clay)	Grvlly (Sandy) (Silty) Clayey	Black Gray - L M D (Brn) - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low (Non) –	Very Soft Soft Firm Hard (Very Hard)	(Dry) Moist Saturated – –	Strong Moderate Slight (None Noted) –	5/0.4	Same as above, drilling even harder. TD = 6'.
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non –	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated – –	Strong Moderate Slight None Noted –		
	GVL - F M C Sand - F M C Silt Clay	Grvlly Sandy Silty Clayey	Black Gray - L M D Brn - L M D Red - L M D Other	Red Brown Gray Green Rust Yellow Other %	High Moderate Low Non –	Very Soft Soft Firm Hard Very Hard	Dry Moist Saturated – –	Strong Moderate Slight None Noted –		

Sample Collected: yes, 2

Sample ID: ZOI-1-371-120809 / TZ-1-371-121109

Date: 12-08-2009 / 12-11-2009

Time: 16:00 / 16:25

Depth: 20" - 24" / 4.25' - 5.75'

Number/Size of Containers: Three 4 oz. jars for each sample

Analysis to be Performed: Modified Skinner List (VOCs 8260, SVOCs 8270, GRO/DRO 8015, Metals 6010, Hg 7470/7471, Cyanide 353.3/9010,9014)

Duplicate Collected: No

Notes: Refusal with GeoProbe @ 2.5', side-stepped ~ 8' to the south to collect TZ sample.

0 - 24" with hand auger, 24" -6' with GeoProbe.

APPENDIX E

GROUNDWATER SAMPLING LOGS

WESTERN REFINING - GALLUP REFINERY
POST CLOSURE - LTU WELL SAMPLING LOG - 2010

WELL #MW-1

GAUGE DATE	3/1/2010
GAUGE TIME	0925 hrs
DTB (feet) Depth to Bottom	132.02
DEDICATED PUMP	Y
DTW (feet) Depth to Water	6.97
DTB - DTW	125.05
1 Well Volume	1.020
3 Well Volumes	382.65
PURGE DATE	3/1/2010
PURGE TIME	0930 hrs
SAMPLE DAY	3/1/2010
SAMPLE TIME	1115 hrs
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMETERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (ppm)	Salinity (ppt)	Dissolved Oxygen (%)
(1)	937	4.67	54.7	636µs	317	0.324	33.8
(2)	1045	3.45	58.1	615µs	307	0.311	32.7
(3)	1055	4.32	58.6	622µs	327	0.314	36.4
(4)	1100	4.26	58.9	635µs	323	0.321	30.2

WEATHER CONDITIONS

Clear, sunny day, slight breeze 0-5 mph. Temp 30-35 deg F.
Muddy conditions.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.
Purged 380 gallons.

SAMPLE LOG

IQ Instrument Calibrated for pH, Conductivity and DO before use. Samples taken at 1115 hours, labeled and placed on ice.
Well re-sampled for Post-Closure activities per Hope with NMED-HWB

WELL #MW-2

GAUGE DATE	3/1/2010
GAUGE TIME	1215 hrs
DTB (feet) Depth to Bottom	140.24
DEDICATED PUMP	Y
DTW (feet) Depth to Water	16.77
DTB - DTW	123.47
1 Well Volume	1.020
3 Well Volumes	377.82
PURGE DATE	3/1/2010
PURGE TIME	1220 hrs
SAMPLE DAY	3/1/2010
SAMPLE TIME	1411 hrs
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMETERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (ppm)	Salinity (ppt)	Dissolved Oxygen (%)
(1)	1224	3.14	56.6	596µs	297	0.322	16.37
(2)	1355	5.01	54.8	651µs	326	0.334	16.38
(3)	1400	5.14	55.8	655µs	328	0.335	15.56
(4)	1405	5.20	55.7	657µs	328	0.335	12.84

WEATHER CONDITIONS

Sunny, clear day. Slight breeze 0-5 mph winds. 30-35 deg F.
Muddy Conditions
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.
Purged 370 gallons.

SAMPLE LOG

Samples taken at 1411 hours , labeled and put on ice.
Well re-sampled for Post-Closure activities per Hope with NMED-HWB.

SIGNATURE: /S/ Cheryl Johnson DATE: 3/1/2010

WESTERN REFINING - GALLUP REFINERY
POST CLOSURE - LTU WELL SAMPLING LOG - 2010

WELL #MW-5	
GAUGE DATE	3/1/2010
GAUGE TIME	1435 hrs
DTB (feet) Depth to Bottom	133.02
DEDICATED PUMP	Y
DTW (feet) Depth to Water	15.13
DTB - DTW	117.89
1 Well Volume	0.740
3 Well Volumes	261.72
PURGE DATE	3/1/2010
PURGE TIME	1440 hrs
SAMPLE DAY	3/1/2010
SAMPLE TIME	1619 hrs
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMETERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (ppm)	Salinity (ppt)	Dissolved Oxygen (%)
(1)	1444	4.57	55.7	567µs	283	0.286	9.26
(2)	1605	5.12	54.7	604µs	302	0.308	13.3
(3)	1610	5.40	53.8	589µs	295	0.300	11.83
(4)	1614	5.35	53.7	601µs	299	0.308	11.86

WEATHER CONDITIONS

Clear, sunny day, slight breeze 0-5 mph. Temp 30-35 deg F. muddy conditions.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.
Purged 260 gallons.

SAMPLE LOG

Samples taken at 1619 hours, labeled and placed on ice.

Well re-sampled for Post-Closure activities per Hope with NMED-HWB

WELL #SMW-4	
GAUGE DATE	3/1/2010
GAUGE TIME	1135 hrs
DTB (feet) Depth to Bottom	72.22
DEDICATED PUMP	Y
DTW (feet) Depth to Water	29.36
DTB - DTW	42.86
1 Well Volume	0.163
3 Well Volumes	20.96
PURGE DATE	3/1/2010
PURGE TIME	1141 hrs
SAMPLE DAY	3/1/2010
SAMPLE TIME	1203 hrs
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMETERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (ppm)	Salinity (ppt)	Dissolved Oxygen (%)
(1)	1145	5.94	54.8	634µs	318	0.323	31.20
(2)	1150	5.47	55.1	620µs	311	0.310	30.40
(3)	1153	4.85	56.8	713µs	356	0.364	28.30
(4)	1200	3.13	56.6	724µs	361	0.369	24.80

WEATHER CONDITIONS

Sunny, clear day. Slight breeze 0-5 mph winds. 30-35 deg F. muddy conditions
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.
Purged approximately 16 gals, pump lost suction. Let sit for a few mins before taking samples.

SAMPLE LOG

Samples taken at 1203 hours , labeled and put on ice.
Well re-sampled for Post-Closure activities per Hope with NMED-HWB.

SIGNATURE: /S/ Cheryl Johnson DATE: 3/1/2010

WESTERN REFINING - GALLUP REFINERY
POST CLOSURE - LTU WELL SAMPLING LOG - 2010

WELL #MW-4	
GAUGE DATE	3/2/2010
GAUGE TIME	0805 hrs
DTB (feet) Depth to Bottom	122.40
DEDICATED PUMP	Y
DTW (feet) Depth to Water	7.74
DTB - DTW	114.66
1 Well Volume	1.020
3 Well Volumes	350.86
PURGE DATE	3/1/2010
PURGE TIME	0810 hrs
SAMPLE DAY	3/1/2010
SAMPLE TIME	1047 hrs
PUMP DEPTH DTW (feet) at end of Purging	

TEST PARAMATERS

	Time (hrs)	pH	Temperature Deg F	Conductivity (uS), (mS)	TDS (ppm)	Salinity (ppt)	Dissolved Oxygen (%)
(1)	814	7.43	55.1	611µs	294	0.313	14.4
(2)	1030	6.64	55.0	621µs	310	0.318	16.1
(3)	1035	6.64	54.7	632µs	335	0.321	21.2
(4)	1038	6.62	54.5	637µs	320	0.323	20.4

WEATHER CONDITIONS

Overcast, cloudy, slight breeze 0-5 mph. Temp 30-35 deg F. muddy conditions.
Attendee: Cheryl Johnson

WATER APPEARANCE

Water is clear, no odor detected at start and end of purging.
Purged approximately 350 gallons.

SAMPLE LOG

Samples taken at 0810 hours, labeled and placed on ice.

Well re-sampled for Post-Closure activities per Hope with NMED-HWB

SIGNATURE: /S/ Cheryl Johnson DATE: 3/2/2010

APPENDIX F

MODIFIED SKINNER LIST

Table E-1A. Modified Skinner List 8260 Volatile Organics and PHCs[a]

Parameter	EPA Method SW-846	Description	Containers	Preservative	Holding Time/Days	Liquid Reporting[c] Limit (µg/L)	Soil Reporting[c] Limit (mg/kg)
Benzene	8260	GC/MS	G	4°C	14	5	0.67
2-Butanone (MEK)	8260	GC/MS	G	4°C	14	1900	7000
Carbon Disulfide	8260	GC/MS	G	4°C	14	1000	350
Chlorobenzene	8260	GC/MS	G	4°C	14	39	54
Chloroform	8260	GC/MS	G	4°C	14	0.16	0.24
Chloromethane	8260	GC/MS	G	4°C	14	1.5	1.2
1,1 Dichloroethane	8260	GC/MS	G	4°C	14	25	580
1,2 Dichloroethane	8260	GC/MS	G	4°C	14	5	0.34
1,1 Dichloroethene	8260	GC/MS	G	4°C	14	5.0	0.053
trans-1,2-Dichloroethene	8260	GC/MS	G	4°C	14	100	63
1,4-Dioxane	8260	GC/MS	G	4°C	14	6.1	44
Ethylbenzene[a]	8260	GC/MS	G	4°C	14	700	230
Methylene Chloride	8260	GC/MS	G	4°C	14	4.3	8.6
Styrene	8260	GC/MS	G	4°C	14	100	1700
1,1,2,2-Tetrachloroethane[b]	8260	GC/MS	G	4°C	14	0.055	0.37
Tetrachloroethene[b]	8260	GC/MS	G	4°C	14	5	4.9
Toluene	8260	GC/MS	G	4°C	14	1000	1000
1,1,1-Trichloroethane	8260	GC/MS	G	4°C	14	60	200
Trichloroethene	8260	GC/MS	G	4°C	14	5	2.7
Total Xylene[a, d]	8260	GC/MS	G	4°C	14	10,000	860
Ethylene Dibromide[b]	8260	GC/MS	G	4°C	14	0.1	0.005
Acetone	8260	GC/MS	G	4°C	14	610	1500

[a]Principal hazardous constituent identified in Ciniza Hazardous Waste Facility Permit.

[b]Additional constituents.

[c]Based on EPA Region 6, Human Health Medium-Specific Screening Levels (1999) and NM WQCC Regulations (1996). Analytical detection limits are required to be lower than reporting limits.

[d]Regulatory limits for individual isomers combined into a 'total' limit for these compounds.

mg/kg = milligrams per kilogram
µg/L = microgram per liter
G = glass with Teflon-lined lid
GC/MS = gas chromatography/mass spectrometry

Table E-1B. Modified Skinner List 8270 Semivolatile Organics Including TPH and PHCs[a]

Parameter	EPA Method SW-846	Description	Container	Preservative	Holding Time/Days	Liquid Reporting Limit (µg/L)[c]	Soil Reporting Limit (mg/kg)[c]
Anthracene	8270	GC/MS	G	4°C	14	1800	16000
Acenaphthene	8270	GC/MS	G	4°C	14	370	2800
Benzo(a)Anthracene	8270	GC/MS	G	4°C	14	0.09	0.62
Benzo(b)Fluoranthene	8270	GC/MS	G	4°C	14	0.09	0.62
Benzo(k)Fluoranthene	8270	GC/MS	G	4°C	14	0.9	6.2
Benzo(a)Pyrene[a]	8270	GC/MS	G	4°C	14	0.0007	0.062
Butyl Benzyl Phthalate	8270	GC/MS	G	4°C	14	7300	240
Chrysene[a]	8270	GC/MS	G	4°C	14	9.2	62
Diethyl Phthalate	8270	GC/MS	G	4°C	14	29000	49000
7,12-Dimethylbenz(a)-Anthracene	8270	GC/MS	G	4°C	14	[d]	[e]
Dimethyl Phthalate	8270	GC/MS	G	4°C	14	370000	100000
Di-n-Octyl Phthalate	8270	GC/MS	G	4°C	14	730	1200
Fluoranthene	8270	GC/MS	G	4°C	14	1500	2300
Fluorene	8270	GC/MS	G	4°C	14	240	2000
Indeno(1,2,3-cd)Pyrene	8270	GC/MS	G	4°C	14	0.09	0.62
2-Methylnaphthalene[a]	8270	GC/MS	G	4°C	14	30	660
2-Methylphenol (Cresol)	8270	GC/MS	G	4°C	14	1800	3000
3/4-Methylphenol (Cresol)	8270	GC/MS	G	4°C	14	1980	3300
Naphthalene[a]	8270	GC/MS	G	4°C	14	30	55
Nitrobenzene	8270	GC/MS	G	4°C	14	3.4	17
4-Nitrophenol	8270	GC/MS	G	4°C	14	2300	3800
Phenanthrene[a]	8270	GC/MS	G	4°C	14	[e]	[e]
Pyrene[a]	8270	GC/MS	G	4°C	14	180	1700
Pyridine	8270	GC/MS	G	4°C	14	37	61
Quinoline	8270	GC/MS	G	4°C	14	0.0056	0.04
Benzenethiole	8270	GC/MS	G	4°C	14	[e]	[e]
Phenol	8270	GC/MS	G	4°C	14	5	36000
Bis(2-Ethylhexyl)phthalate[b]	8270	GC/MS	G	4°C	14	6.0	35
Dibenz(a,j)acridine[b]	8270	GC/MS	G	4°C	14	[c]	[c]
Dibenz(a,h)-anthracene	8270	GC/MS	G	4°C	14	0.0092	0.062
Dichlorobenzene[b, f]	8270	GC/MS	G	4°C	14	675	410
Methyl Naphthalene	8270	GC/MS	G	4°C	14	30	[e]
2,4-Dimethylphenol	8270	GC/MS	G	4°C	14	730	1200
2,4-Dinitrotoluene	8270	GC/MS	G	4°C	14	73	120

Table E-1B. Modified Skinner List 8270 Semivolatile Organics Including TPH and PHCs[a]

Parameter	EPA Method SW-846	Description	Container	Preservative	Holding Time/Days	Liquid Reporting Limit (µg/L)[c]	Soil Reporting Limit (mg/kg)[c]
Anthracene	8270	GC/MS	G	4°C	14	1800	16000
Acenaphthene	8270	GC/MS	G	4°C	14	370	2800
Benzo(a)Anthracene	8270	GC/MS	G	4°C	14	0.09	0.62
Benzo(b)Fluoranthene	8270	GC/MS	G	4°C	14	0.09	0.62
Benzo(k)Fluoranthene	8270	GC/MS	G	4°C	14	0.9	6.2
Benzo(a)Pyrene[a]	8270	GC/MS	G	4°C	14	0.0007	0.062
Butyl Benzyl Phthalate	8270	GC/MS	G	4°C	14	7300	240
Chrysene[a]	8270	GC/MS	G	4°C	14	9.2	62
Diethyl Phthalate	8270	GC/MS	G	4°C	14	29000	49000
7,12-Dimethylbenz(a)-Anthracene	8270	GC/MS	G	4°C	14	[e]	[e]
Dimethyl Phthalate	8270	GC/MS	G	4°C	14	370000	100000
Di-n-Octyl Phthalate	8270	GC/MS	G	4°C	14	730	1200
Fluoranthene	8270	GC/MS	G	4°C	14	1500	2300
Fluorene	8270	GC/MS	G	4°C	14	240	2000
Indeno(1,2,3-cd)Pyrene	8270	GC/MS	G	4°C	14	0.09	0.62
2-Methylnaphthalene[a]	8270	GC/MS	G	4°C	14	30	660
2-Methylphenol (Cresol)	8270	GC/MS	G	4°C	14	1800	3000
3/4-Methylphenol (Cresol)	8270	GC/MS	G	4°C	14	1980	3300
Naphthalene[a]	8270	GC/MS	G	4°C	14	30	55
Nitrobenzene	8270	GC/MS	G	4°C	14	3.4	17
4-Nitrophenol	8270	GC/MS	G	4°C	14	2300	3800
Phenanthrene[a]	8270	GC/MS	G	4°C	14	[e]	[e]
Pyrene[a]	8270	GC/MS	G	4°C	14	180	1700
Pyridine	8270	GC/MS	G	4°C	14	37	61
Quinoline	8270	GC/MS	G	4°C	14	0.0056	0.04
Benzenethiole	8270	GC/MS	G	4°C	14	[e]	[e]
Phenol	8270	GC/MS	G	4°C	14	5	36000
Bis(2-Ethylhexyl)phthalate[b]	8270	GC/MS	G	4°C	14	6.0	35
Dibenz(a,j)acridine[b]	8270	GC/MS	G	4°C	14	[e]	[e]
Dibenz(a,h)-anthracene	8270	GC/MS	G	4°C	14	0.0092	0.062
Dichlorobenzene[b, f]	8270	GC/MS	G	4°C	14	675	410
Methyl Naphthalene	8270	GC/MS	G	4°C	14	30	[e]
2,4-Dimethylphenol	8270	GC/MS	G	4°C	14	730	1200
2,4-Dinitrotoluene	8270	GC/MS	G	4°C	14	73	120

Table E-1C. Modified Skinner List Metals and PHCs[a]

Parameter	EPA Method SW-846	Description	Container	Preservative[b]	Holding Time/Days	Aqueous Reporting Limit (µg/L)[c]	Soil Reporting Limit (mg/kg)[c]
Antimony	7060(aq), 6010	GFAA/ICP	P or G	4°C	180	6.0	31
Arsenic	6010	ICP-AES	P or G	4°C	180	50	22
Barium	6010	ICP-AES	P or G	4°C	180	2000	5400
Beryllium	6010	ICP-AES	P or G	4°C	180	4.0	150
Cadmium	6010	ICP-AES	P or G	4°C	180	5.0	39
Chromium[a]	6010	ICP-AES	P or G	4°C	180	50	210
Cobalt	6010	ICP-AES	P or G	4°C	180	50	3400
Lead[a]	6010	ICP-AES	P or G	4°C	180	15	400
Nickel	6010	ICP-AES	P or G	4°C	180	100	1600
Selenium	6010	ICP-AES	P or G	4°C	180	50	390
Silver	6010	ICP-AES	P or G	4°C	180	50	390
Vanadium	6010	ICP-AES	P or G	4°C	180	260	550
Zinc	6010	ICP-AES	P or G	4°C	180	10000	23000

[a]Principal hazardous constituent identified in Ciniza Hazardous Waste Facility Permit.
[b]Aqueous samples are field acidified to pH < 2 with HNO_3 and must not be refrigerated. Non-aqueous samples are cooled to 4°C.
[c]Based on EPA Region 6, Human Health Medium-Specific Screening Levels (1999) and NM WQCC Regulations (1996). Analytical detection limits are required to be lower than reporting limits.

µg/l = microgram per liter
mg/kg = milligram per kilogram
ICP-AES = Inductively Coupled Plasma - Atomic Emission Spectroscopy
G = glass
P = linear polyethylene, polypropylene, or Teflon

Table E-1B. Modified Skinner List 8270 Semivolatile Organics Including TPH and PHCs[a] (Continued)

Parameter	EPA Method SW-846	Description	Container	Preservative	Holding Time/Days	Liquid Reporting Limit (µg/L)[c]	Soil Reporting Limit (mg/kg)[c]
2,4-Dinitrophenol[b]	8270	GC/MS	G	4°C	14	73	120
Benzo(j)Fluoranthene	8270	GC/MS	G	4°C	14	[e]	[e]
2-Chlorophenol	8270	GC/MS	G	4°C	14	30	61
2,4,6-Trichlorophenol	8270	GC/MS	G	4°C	14	6.1	44
Di-n-Butyl Phthalate	8270	GC/MS	G	4°C	14	3700	6100
Benzyl Alcohol[b]	8270	GC/MS	G	4°C	14	11000	18000
Methyl Chrysene	8270	GC/MS	G	4°C	14	[e]	[e]
Total Cresol[a, f]	8270	GC/MS	G	4°C	14	3780	6300
TPH[g]	8015m	GS	G	4°C	7	—	1000

[a]Principal hazardous constituent identified in Ciniza Hazardous Waste Facility Permit.

[b]Additional constituents.

[c]Based on EPA Region 6, Human Health Medium-Specific Screening Levels (1999) and NM WQCC Regulations (1996). Analytical detection limits are required to be lower than reporting limits.

[e]No regulatory limit provided. Laboratory detection limit will be used.

[f]Regulatory limits for individual isomers combined into a 'total' limit for these compounds.

[g]Total naphthalene plus monomethylnaphthalenes regulatory limit is < 30µg/L for aqueous samples.

[h]Total Petroleum Hydrocarbon as Gasoline Range Organics and Diesel Range Organics

µg/l. = microgram per liter
mg/kg = milligram per kilogram
G = glass with Teflon-lined lid
GC/MS = gas chromatography/mass spectrometry
GC = gas chromatography

Table E-1C. Modified Skinner List Metals and PHCs[a]

Parameter	EPA Method SW-846	Description	Container	Preservative[b]	Holding Time/Days	Aqueous Reporting Limit (µg/L)[c]	Soil Reporting Limit (mg/kg)[c]
Antimony	7060(aq), 6010	GFAA/ICP	P or G	4°C	180	6.0	31
Arsenic	6010	ICP-AES	P or G	4°C	180	50	22
Barium	6010	ICP-AES	P or G	4°C	180	2000	5400
Beryllium	6010	ICP-AES	P or G	4°C	180	4.0	150
Cadmium	6010	ICP-AES	P or G	4°C	180	5.0	39
Chromium[a]	6010	ICP-AES	P or G	4°C	180	50	210
Cobalt	6010	ICP-AES	P or G	4°C	180	50	3400
Lead[a]	6010	ICP-AES	P or G	4°C	180	15	400
Nickel	6010	ICP-AES	P or G	4°C	180	100	1600
Selenium	6010	ICP-AES	P or G	4°C	180	50	390
Silver	6010	ICP-AES	P or G	4°C	180	50	390
Vanadium	6010	ICP-AES	P or G	4°C	180	260	550
Zinc	6010	ICP-AES	P or G	4°C	180	10000	23000

[a]Principal hazardous constituent identified in Cinizs Hazardous Waste Facility Permit.
[b]Aqueous samples are field acidified to pH < 2 with HNO_3 and must not be refrigerated. Non-aqueous samples are cooled to 4°C.
[c]Based on EPA Region 6, Human Health Medium-Specific Screening Levels (1999) and NM WQCC Regulations (1996). Analytical detection limits are required to be lower than reporting limits.

µg/l = microgram per liter
mg/kg = milligram per kilogram
ICP-AES = Inductively Coupled Plasma - Atomic Emission Spectroscopy
G = glass
P = linear polyethylene, polypropylene, or Teflon

Table E-1D. Mercury[a] and Cyanide

Parameter	EPA Method SW-846	Description	Container	Preservative	Holding Time/Days	Aqueous Reporting Limit (µg/L)[c]	Soil Reporting Limit (mg/kg)[c]
Mercury[a]	7470/7471	CVAA	P or G	4°C[b]	28	2.0	23.
Cyanide	335.3/ 9010, 9014	Colorimetry	P or G	4°C[d]	14	200	1200

[a]Principal hazardous constituent identified in Ciniza Hazardous Waste Facility Permit.

[b]Aqueous samples are field acidified to pH < 2 with HNO_3 and must not be refrigerated. Non-aqueous samples are cooled to 4°C.

[c]Based on EPA Region 6, Human Health Medium-Specific Screening Levels and NM WQCC Regulations (1996). Analytical detection limits are required to be lower than reporting limits.

[d]Aqueous samples are field adjusted to pH >12 with NaOH and refrigerated. Non-aqueous samples are cooled to 4°C.

µg/l	=	microgram per liter
mg/kg	=	milligram per kilogram
CVAA	=	cold vapor atomic absorption
G	=	glass
P	=	linear polyethylene, polypropylene, or Teflon

PHOTO 5. SAMPLE LOCATION 7544 (STAKE).

PHOTO 6. SAMPLE LOCATION 8334 (STAKE).

PHOTO 7. STAINLESS STEEL AUGER WITH SLEEVES USED TO COLLECT ZOI SAMPLES.

PHOTO 8. DECON STATION, ONE WASH WITH SIMPLE GREEN, TWO RINSE (DISTILLED WATER).

APPENDIX G

ANALYTICAL DATA

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, December 22, 2009

Cheryl Johnson
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-0231
FAX (505) 722-0210

RE: LTU RCRA Soil Sampling

Order No.: 0912272

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory, Inc. received 7 sample(s) on 12/11/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc. **Date:** *22-Dec-09*

CLIENT: Western Refining Southwest, Gallup
Project: LTU RCRA Soil Sampling
Lab Order: 0912272

CASE NARRATIVE

"S" flags denote that the surrogate was not recoverable due to sample dilution or matrix interferences.

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	ZOI-1-371-120809
Lab Order:	0912272	**Collection Date:**	12/8/2009 4:00:00 PM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/11/2009
Lab ID:	0912272-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/15/2009 8:12:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/15/2009 8:12:09 PM
Surr: DNOP	90.1	61.7-135		%REC	1	12/15/2009 8:12:09 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/15/2009 4:40:53 AM
Surr: BFB	95.4	65.9-118		%REC	1	12/15/2009 4:40:53 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	ZOI-2-8334-120909
Lab Order:	0912272	**Collection Date:**	12/9/2009 9:15:00 AM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/11/2009
Lab ID:	0912272-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	7000	1000		mg/Kg	100	12/15/2009 8:47:34 PM
Motor Oil Range Organics (MRO)	6900	5000		mg/Kg	100	12/15/2009 8:47:34 PM
Surr: DNOP	0	61.7-135	S	%REC	100	12/15/2009 8:47:34 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	12/15/2009 5:11:14 AM
Surr: BFB	84.0	65.9-118		%REC	10	12/15/2009 5:11:14 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	ZOI-2-4139-120909
Lab Order:	0912272	**Collection Date:**	12/9/2009 10:30:00 AM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/11/2009
Lab ID:	0912272-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	9400	1000		mg/Kg	100	12/15/2009 9:30:28 PM
Motor Oil Range Organics (MRO)	11000	5000		mg/Kg	100	12/15/2009 9:30:28 PM
Surr: DNOP	0	61.7-135	S	%REC	100	12/15/2009 9:30:28 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	12/15/2009 5:41:24 AM
Surr: BFB	91.7	65.9-118		%REC	10	12/15/2009 5:41:24 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	ZOI-3-3414-120909
Lab Order:	0912272	**Collection Date:**	12/9/2009 11:50:00 AM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/11/2009
Lab ID:	0912272-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	1800	200		mg/Kg	20	12/15/2009 10:41:23 PM
Motor Oil Range Organics (MRO)	1800	1000		mg/Kg	20	12/15/2009 10:41:23 PM
Surr: DNOP	0	61.7-135	S	%REC	20	12/15/2009 10:41:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	12/15/2009 3:09:45 PM
Surr: BFB	87.1	65.9-118		%REC	10	12/15/2009 3:09:45 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Estimated value
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	ZOI-1-2521-120909
Lab Order:	0912272	**Collection Date:**	12/9/2009 1:40:00 PM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/11/2009
Lab ID:	0912272-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/15/2009 7:36:41 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/15/2009 7:36:41 PM
Surr: DNOP	94.1	61.7-135		%REC	1	12/15/2009 7:36:41 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/15/2009 4:10:34 PM
Surr: BFB	86.6	65.9-118		%REC	1	12/15/2009 4:10:34 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	BD120909
Lab Order:	0912272	**Collection Date:**	12/9/2009
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/11/2009
Lab ID:	0912272-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	7500	500		mg/Kg	50	12/15/2009 11:16:49 PM
Motor Oil Range Organics (MRO)	7500	2500		mg/Kg	50	12/15/2009 11:16:49 PM
Surr: DNOP	0	61.7-135	S	%REC	50	12/15/2009 11:16:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	12/15/2009 4:40:52 PM
Surr: BFB	82.6	65.9-118		%REC	10	12/15/2009 4:40:52 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Trip Blank
Lab Order:	0912272	**Collection Date:**	
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/11/2009
Lab ID:	0912272-07	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/16/2009 12:15:40 AM
Surr: BFB	94.8	55.2-107		%REC	1	12/16/2009 12:15:40 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-001	**Sampling Date**	12/8/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-01B / ZOI-1-371-120809	**Sampling Time**	4:00 PM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Arsenic	1.71	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Barium	314	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Beryllium	1.51	mg/kg	1	12/17/2009	ETL	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Chromium	26.1	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Cobalt	8.54	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Cyanide	ND	mg/kg	2	12/17/2009	JTT	EPA 9012B	
Lead	13.6	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Mercury-CV	ND	mg/Kg	0.05	12/17/2009	CAS	EPA 7471A	
Nickel	18.9	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Selenium	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Silver	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Vanadium	29.0	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Zinc	32.4	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
%moisture	12.4	Percent		12/17/2009	EMP	%moisture	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	0912272
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-003	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-02B / ZOI-2-8334-120909	**Sampling Time**	9:15 AM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Arsenic	14.5	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Barium	481	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Beryllium	1.03	mg/kg	1	12/17/2009	ETL	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Chromium	123	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Cobalt	12.6	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Cyanide	10.8	mg/kg	2	12/17/2009	JTT	EPA 9012B	
Lead	89.7	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Mercury-CV	6.14	mg/Kg	0.05	12/17/2009	CAS	EPA 7471A	
Nickel	46.7	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Selenium	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Silver	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Vanadium	43.7	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Zinc	718	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
%moisture	18.6	Percent		12/17/2009	EMP	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-005	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-03B / ZOI-2-4139-120909	**Sampling Time**	10:30 AM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Arsenic	10.5	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Barium	619	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Beryllium	1.47	mg/kg	1	12/17/2009	ETL	EPA 6020A	
Cadmium	1.11	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Chromium	638	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Cobalt	11.4	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Cyanide	28.9	mg/kg	2	12/17/2009	JTT	EPA 9012B	
Lead	79.4	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Mercury-CV	4.23	mg/Kg	0.05	12/17/2009	CAS	EPA 7471A	
Nickel	33.8	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Selenium	1.75	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Silver	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Vanadium	43.9	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Zinc	924	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
%moisture	19.4	Percent		12/17/2009	EMP	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-007	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-04B / ZOI-3-3414-120909	**Sampling Time**	11:50 AM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Arsenic	6.96	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Barium	302	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Beryllium	1.10	mg/kg	1	12/17/2009	ETL	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Chromium	122	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Cobalt	12.4	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Cyanide	5.22	mg/kg	2	12/17/2009	JTT	EPA 9012B	
Lead	61.1	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Mercury-CV	1.31	mg/Kg	0.05	12/17/2009	CAS	EPA 7471A	
Nickel	26.9	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Selenium	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Silver	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Vanadium	34.1	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Zinc	235	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
%moisture	10.4	Percent		12/17/2009	EMP	%moisture	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-009	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-05B / ZOI-1-2521-120909	**Sampling Time**	1:40 PM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Arsenic	1.56	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Barium	389	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Beryllium	1.73	mg/kg	1	12/17/2009	ETL	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Chromium	26.4	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Cobalt	8.99	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Cyanide	ND	mg/kg	2	12/17/2009	JTT	EPA 9012B	
Lead	15.5	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Mercury-CV	ND	mg/Kg	0.05	12/17/2009	CAS	EPA 7471A	
Nickel	19.5	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Selenium	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Silver	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Vanadium	30.8	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Zinc	30.1	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-011	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-06B / BD120909	**Sampling Time**			
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Arsenic	12.0	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Barium	625	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Beryllium	1.28	mg/kg	1	12/17/2009	ETL	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Chromium	667	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
Cobalt	11.2	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Cyanide	30.9	mg/kg	2	12/17/2009	JTT	EPA 9012B	
Lead	71.5	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Mercury-CV	4.15	mg/Kg	0.05	12/17/2009	CAS	EPA 7471A	
Nickel	36.6	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Selenium	1.48	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Silver	ND	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Vanadium	42.7	mg/Kg	1	12/17/2009	ETL	EPA 6020A	
Zinc	968	mg/Kg	1	12/17/2009	ETL	EPA 6020A	M3
%moisture	18	Percent		12/17/2009	EMP	%moisture	

Authorized Signature

John Coddington, Lab Manager

M3 Spike recovery value is unusable. Analyte concentration disproportionate to the spike level. Blank spike recovery acceptabl
MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1267

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-001	**Sampling Date**	12/8/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-01B / ZOI-1-371-120809	**Sampling Time**	4:00 PM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
5+6-Methylchrysene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzenethiole	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-001	**Sampling Date**	12/8/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-01B / ZOI-1-371-120809	**Sampling Time**	4:00 PM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[a]anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[a]pyrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Chrysene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Cresol (total)	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Diethylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Famphur	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-001	**Sampling Date**	12/8/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-01B / ZOI-1-371-120809	**Sampling Time**	4:00 PM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Naphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Nitrobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091214017-001

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	78.8	19-122
2-Fluorobiphenyl	EPA 8270C	81.3	30-115
2-Fluorophenol	EPA 8270C	59.5	25-121
Nitrobenzene-d5	EPA 8270C	50.6	17-112
Phenol-d5	EPA 8270C	65.4	24-113
Terphenyl-d14	EPA 8270C	90.7	18-137

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-003	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-02B / ZOI-2-8334-120909	**Sampling Time**	9:15 AM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1-Methylnaphthalene	0.246	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylnaphthalene	0.408	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
5+6-Methylchrysene	38.5	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzenethiole	0.292	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-003	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-02B / ZOI-2-8334-120909	**Sampling Time**	9:15 AM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Benzo[a]anthracene	1.22	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[a]pyrene	8.18	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	1.27	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Chrysene	9.12	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Cresol (total)	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	0.943	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Diethylphthalate	0.204	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Famphur	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	0.450	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Naphthalene	0.161	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-003	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-02B / ZOI-2-8334-120909	**Sampling Time**	9:15 AM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Nitrobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyrene	2.86	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091214017-003

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	102.2	19-122
2-Fluorobiphenyl	EPA 8270C	110.0	30-115
2-Fluorophenol	EPA 8270C	63.7	25-121
Nitrobenzene-d5	EPA 8270C	60.9	17-112
Phenol-d5	EPA 8270C	86.9	24-113
Terphenyl-d14	EPA 8270C	91.1	18-137

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-005	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-03B / ZOI-2-4139-120909	**Sampling Time**	10:30 AM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
3+4-Methylphenol	0.454	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
5+6-Methylchrysene	40.8	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzenethiole	3.04	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-005	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-03B / ZOI-2-4139-120909	**Sampling Time**	10:30 AM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Benzo[a]anthracene	0.889	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[a]pyrene	12.1	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Butylbenzylphthalate	0.436	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Chrysene	13.0	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Cresol (total)	0.454	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Diethylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Famphur	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Naphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-005	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-03B / ZOI-2-4139-120909	**Sampling Time**	10:30 AM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Nitrobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenol	0.200	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyrene	3.63	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091214017-005

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	106.9	19-122
2-Fluorobiphenyl	EPA 8270C	104.6	30-115
2-Fluorophenol	EPA 8270C	64.3	25-121
Nitrobenzene-d5	EPA 8270C	54.4	17-112
Phenol-d5	EPA 8270C	87.7	24-113
Terphenyl-d14	EPA 8270C	101.6	18-137

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-007	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-04B / ZOI-3-3414-120909	**Sampling Time**	11:50 AM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
3+4-Methylphenol	0.104	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
5+6-Methylchrysene	0.740	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Anthracene	0.088	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzenethiole	0.292	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-007	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-04B / ZOI-3-3414-120909	**Sampling Time**	11:50 AM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Benzo[a]anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[a]pyrene	0.701	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Chrysene	0.401	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Cresol (total)	0.104	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Diethylphthalate	0.378	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Famphur	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Naphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-007	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-04B / ZOI-3-3414-120909	**Sampling Time**	11:50 AM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Nitrobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenol	0.151	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091214017-007

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	96.6	19-122
2-Fluorobiphenyl	EPA 8270C	95.2	30-115
2-Fluorophenol	EPA 8270C	60.6	25-121
Nitrobenzene-d5	EPA 8270C	55.2	17-112
Phenol-d5	EPA 8270C	77.7	24-113
Terphenyl-d14	EPA 8270C	96.8	18-137

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-009	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-05B / ZOI-1-2521-120909	**Sampling Time**	1:40 PM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
5+6-Methylchrysene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzenethiole	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
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Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-009	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-05B / ZOI-1-2521-120909	**Sampling Time**	1:40 PM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Benzo[a]anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[a]pyrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Chrysene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Cresol (total)	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Diethylphthalate	0.408	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Famphur	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Naphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-009	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-05B / ZOI-1-2521-120909	**Sampling Time**	1:40 PM	**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Nitrobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091214017-009

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	65.0	19-122
2-Fluorobiphenyl	EPA 8270C	74.8	30-115
2-Fluorophenol	EPA 8270C	49.6	25-121
Nitrobenzene-d5	EPA 8270C	47.6	17-112
Phenol-d5	EPA 8270C	58.8	24-113
Terphenyl-d14	EPA 8270C	100.5	18-137

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-011	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-06B / BD120909	**Sampling Time**		**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
1-Methylnaphthalene	0.096	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylnaphthalene	0.116	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
2-Methylphenol	0.088	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
3+4-Methylphenol	0.444	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
5+6-Methylchrysene	32.0	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzenethiole	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	2.92	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-011	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-06B / BD120909	**Sampling Time**		**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Benzo[a]anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[a]pyrene	9.54	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Chrysene	9.92	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Cresol (total)	0.532	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Diethylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Famphur	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluoranthene	0.099	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Naphthalene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	0912272
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-011	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-06B / BD120909	**Sampling Time**		**Extraction Date**	12/15/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Nitrobenzene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Phenol	0.194	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyrene	1.59	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/16/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091214017-011

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	100.8	19-122
2-Fluorobiphenyl	EPA 8270C	105.6	30-115
2-Fluorophenol	EPA 8270C	62.9	25-121
Nitrobenzene-d5	EPA 8270C	57.4	17-112
Phenol-d5	EPA 8270C	85.8	24-113
Terphenyl-d14	EPA 8270C	93.6	18-137

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-002	**Sampling Date**	12/8/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-01C / ZOI-1-371-120809	**Sampling Time**	4:00 PM	**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
m+p-Xylene	0.00566	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	0912272
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-002	**Sampling Date**	12/8/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-01C / ZOI-1-371-120809	**Sampling Time**	4:00 PM	**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091214017-002

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.4	70-130
4-Bromofluorobenzene	EPA 8260B	99.2	70-130
Toluene-d8	EPA 8260B	105.6	70-130

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-004	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-02C / ZOI-2-8334-120909	**Sampling Time**	9:15 AM	**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Benzene	0.00629	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Carbon disulfide	0.00845	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Ethylbenzene	0.00740	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
m+p-Xylene	0.0179	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
o-Xylene	0.00709	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Toluene	0.0153	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-004	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-02C / ZOI-2-8334-120909	**Sampling Time**	9:15 AM	**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091214017-004

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	83.2	70-130
4-Bromofluorobenzene	EPA 8260B	98.4	70-130
Toluene-d8	EPA 8260B	102.8	70-130

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-006	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-03C / ZOI-2-4139-120909	**Sampling Time**	10:30 AM	**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Carbon disulfide	0.00536	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
m+p-Xylene	0.00773	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Toluene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-006	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-03C / ZOI-2-4139-120909	**Sampling Time**	10:30 AM	**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091214017-006

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	93.6	70-130
4-Bromofluorobenzene	EPA 8260B	99.2	70-130
Toluene-d8	EPA 8260B	105.6	70-130

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-008	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-04C / ZOI-3-3414-120909	**Sampling Time**	11:50 AM	**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
m+p-Xylene	0.00882	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Toluene	0.00832	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	0912272
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-008	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-04C / ZOI-3-3414-120909	**Sampling Time**	11:50 AM	**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091214017-008

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.0	70-130
4-Bromofluorobenzene	EPA 8260B	100.0	70-130
Toluene-d8	EPA 8260B	105.2	70-130

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-010	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-05C / ZOI-1-2521-120909	**Sampling Time**	1:40 PM	**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1,2-Trichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Toluene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-010	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-05C / ZOI-1-2521-120909	**Sampling Time**	1:40 PM	**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091214017-010

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.8	70-130
4-Bromofluorobenzene	EPA 8260B	99.6	70-130
Toluene-d8	EPA 8260B	106.0	70-130

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091214017
Project Name: 0912272

Analytical Results Report

Sample Number	091214017-012	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-06C / BD120909	**Sampling Time**		**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Carbon disulfide	0.0101	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Ethylbenzene	0.00543	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
m+p-Xylene	0.0107	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/15/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Toluene	0.00515	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091214017
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912272
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091214017-012	**Sampling Date**	12/9/2009	**Date/Time Received**	12/14/2009 1:12 PM
Client Sample ID	0912272-06C / BD120909	**Sampling Time**		**Extraction Date**	
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/15/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091214017-012

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.4	70-130
4-Bromofluorobenzene	EPA 8260B	97.6	70-130
Toluene-d8	EPA 8260B	106.0	70-130

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: LTU RCRA Soil Sampling **Work Order:** 0912272

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-20855		*MBLK*				Batch ID:	**20855**	Analysis Date:	12/15/2009 4:00:10 PM		
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-20855		*LCS*				Batch ID:	**20855**	Analysis Date:	12/15/2009 4:36:23 PM		
Diesel Range Organics (DRO)	39.07	mg/Kg	10	50	0	78.1	64.6	116			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-20850		*MBLK*				Batch ID:	**20850**	Analysis Date:	12/14/2009 8:05:35 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-20850		*LCS*				Batch ID:	**20850**	Analysis Date:	12/14/2009 6:03:55 PM		
Gasoline Range Organics (GRO)	28.20	mg/Kg	5.0	25	1.16	108	77.7	135			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R36584**	Analysis Date:	12/15/2009 9:35:55 AM		
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R36584**	Analysis Date:	12/15/2009 7:42:53 PM		
Gasoline Range Organics (GRO)	0.5230	mg/L	0.050	0.5	0	105	80	115			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU — Date Received: 12/11/2009

Work Order Number 0912272 — Received by: TLS

Checklist completed by: Signature 12/11/09 Date — Sample ID labels checked by: Initials

Matrix: — Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace? No VOA vials submitted ☑		Yes ☐	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**1.3°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Gallup Refining / Western Refining

Mailing Address: Route 3 Box 7 Gallup, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-722-0210

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush 1 week

Project Name: LTU RCRA Soil Sampling

Project #: LTU sampling

Project Manager: Cheryl Johnson

Sampler: Grant Price

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0912372
12/3/09	16:00	Soil	20I-1-371-120309	3x4oz	none	-1
12/9/09	9:15	Soil	20I-2-8334-120909	3x4oz	none	-2
12/9/09	10:30	Soil	20I-2-4139-120909	3x4oz	none	-3
12/9/09	11:50	Soil	20I-3-3414-120909	3x4oz	none	-4
12/9/09	13:40	Soil	20I-1-2521-120909	3x4oz	none	-5
12/9/09	"	Soil	BD120909	3x4oz	none	-6
12/9/09	9:15	Soil	MS/MSD	6x4oz	none	-7
"	"	water	Trip Blank	3 VOA	HCL	-7

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8270 Extended Modified				Air Bubbles (Y or N)
											X				
											X				
											X				
											X				
											X				
											X				
											X				
									X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/10/09	10:00	Grant Price	UPS	12/10/09	10:00
Date:	Time:	Relinquished by:	Received by:	Date	Time
				12/10/09	950

Remarks: MS/MSD collected from 20I-2-8334-120909

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, December 29, 2009

Cheryl Johnson
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-0231
FAX (505) 722-0210

RE: LTU RCRA Soil Sampling

Order No.: 0912332

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 12/16/2009 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	TZ-1-371-121109
Lab Order:	0912332	**Collection Date:**	12/11/2009 4:25:00 PM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/16/2009
Lab ID:	0912332-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/17/2009 2:48:35 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/17/2009 2:48:35 PM
Surr: DNOP	87.9	61.7-135		%REC	1	12/17/2009 2:48:35 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2009 11:00:52 PM
Surr: BFB	88.6	65.9-118		%REC	1	12/17/2009 11:00:52 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	TZ-1-2521-121109
Lab Order:	0912332	**Collection Date:**	12/11/2009 3:20:00 PM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/16/2009
Lab ID:	0912332-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/17/2009 3:24:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/17/2009 3:24:10 PM
Surr: DNOP	90.0	61.7-135		%REC	1	12/17/2009 3:24:10 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2009 11:31:16 PM
Surr: BFB	93.5	65.9-118		%REC	1	12/17/2009 11:31:16 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	*Analyte detected below quantitation limits*	MCL	*Maximum Contaminant Level*
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	TZ-2-4139-121109
Lab Order:	0912332	**Collection Date:**	12/11/2009 1:05:00 PM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/16/2009
Lab ID:	0912332-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/17/2009 5:11:04 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/17/2009 5:11:04 PM
Surr: DNOP	85.1	61.7-135		%REC	1	12/17/2009 5:11:04 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2009 12:01:38 AM
Surr: BFB	94.6	65.9-118		%REC	1	12/18/2009 12:01:38 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	TZ-2-8334-121109
Lab Order:	0912332	**Collection Date:**	12/11/2009 1:30:00 PM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/16/2009
Lab ID:	0912332-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/17/2009 5:46:44 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/17/2009 5:46:44 PM
Surr: DNOP	87.3	61.7-135		%REC	1	12/17/2009 5:46:44 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2009 12:32:03 AM
Surr: BFB	87.8	65.9-118		%REC	1	12/18/2009 12:32:03 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	TZ-3-3414-121109
Lab Order:	0912332	**Collection Date:**	12/11/2009 12:35:00 PM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/16/2009
Lab ID:	0912332-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/17/2009 6:22:24 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/17/2009 6:22:24 PM
Surr: DNOP	85.4	61.7-135		%REC	1	12/17/2009 6:22:24 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2009 1:02:24 AM
Surr: BFB	90.3	65.9-118		%REC	1	12/18/2009 1:02:24 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	ZOI-3-7544-121109
Lab Order:	0912332	**Collection Date:**	12/11/2009 2:00:00 PM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/16/2009
Lab ID:	0912332-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	270	50		mg/Kg	5	12/17/2009 7:33:17 PM
Motor Oil Range Organics (MRO)	490	250		mg/Kg	5	12/17/2009 7:33:17 PM
Surr: DNOP	137	61.7-135	S	%REC	5	12/17/2009 7:33:17 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2009 1:32:45 AM
Surr: BFB	93.9	65.9-118		%REC	1	12/18/2009 1:32:45 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	TZ-3-7544-121109
Lab Order:	0912332	**Collection Date:**	12/11/2009 2:30:00 PM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/16/2009
Lab ID:	0912332-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/17/2009 6:57:50 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/17/2009 6:57:50 PM
Surr: DNOP	80.7	61.7-135		%REC	1	12/17/2009 6:57:50 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2009 2:02:53 AM
Surr: BFB	91.3	65.9-118		%REC	1	12/18/2009 2:02:53 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Estimated value	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0912332
Project: LTU RCRA Soil Sampling
Lab ID: 0912332-08

Client Sample ID: EB121109
Collection Date: 12/11/2009 9:10:00 AM
Date Received: 12/16/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Toluene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Ethylbenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Naphthalene	ND	2.0		µg/L	1	12/16/2009 2:56:10 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2009 2:56:10 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2009 2:56:10 PM
Acetone	ND	10		µg/L	1	12/16/2009 2:56:10 PM
Bromobenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Bromodichloromethane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Bromoform	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Bromomethane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
2-Butanone	ND	10		µg/L	1	12/16/2009 2:56:10 PM
Carbon disulfide	ND	10		µg/L	1	12/16/2009 2:56:10 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Chlorobenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Chloroethane	ND	2.0		µg/L	1	12/16/2009 2:56:10 PM
Chloroform	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Chloromethane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
2-Chlorotoluene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
4-Chlorotoluene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
cis-1,2-DCE	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/16/2009 2:56:10 PM
Dibromochloromethane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Dibromomethane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/16/2009 2:56:10 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
2-Hexanone	ND	10		µg/L	1	12/16/2009 2:56:10 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	EB121109
Lab Order:	0912332	**Collection Date:**	12/11/2009 9:10:00 AM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/16/2009
Lab ID:	0912332-08	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/16/2009 2:56:10 PM
Methylene Chloride	ND	3.0		µg/L	1	12/16/2009 2:56:10 PM
n-Butylbenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
n-Propylbenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
sec-Butylbenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Styrene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
tert-Butylbenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/16/2009 2:56:10 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
trans-1,2-DCE	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/16/2009 2:56:10 PM
Vinyl chloride	ND	1.0		µg/L	1	12/16/2009 2:56:10 PM
Xylenes, Total	ND	1.5		µg/L	1	12/16/2009 2:56:10 PM
Surr: 1,2-Dichloroethane-d4	99.9	54.6-141		%REC	1	12/16/2009 2:56:10 PM
Surr: 4-Bromofluorobenzene	116	60.1-133		%REC	1	12/16/2009 2:56:10 PM
Surr: Dibromofluoromethane	105	78.5-130		%REC	1	12/16/2009 2:56:10 PM
Surr: Toluene-d8	101	79.5-126		%REC	1	12/16/2009 2:56:10 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0912332
Project: LTU RCRA Soil Sampling
Lab ID: 0912332-09

Client Sample ID: FB121109
Collection Date: 12/11/2009 9:30:00 AM
Date Received: 12/16/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Toluene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Ethylbenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Naphthalene	ND	2.0		µg/L	1	12/16/2009 4:19:05 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2009 4:19:05 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2009 4:19:05 PM
Acetone	ND	10		µg/L	1	12/16/2009 4:19:05 PM
Bromobenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Bromodichloromethane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Bromoform	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Bromomethane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
2-Butanone	ND	10		µg/L	1	12/16/2009 4:19:05 PM
Carbon disulfide	ND	10		µg/L	1	12/16/2009 4:19:05 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Chlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Chloroethane	ND	2.0		µg/L	1	12/16/2009 4:19:05 PM
Chloroform	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Chloromethane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
2-Chlorotoluene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
4-Chlorotoluene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
cis-1,2-DCE	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/16/2009 4:19:05 PM
Dibromochloromethane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Dibromomethane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/16/2009 4:19:05 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
2-Hexanone	ND	10		µg/L	1	12/16/2009 4:19:05 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	FB121109
Lab Order:	0912332	**Collection Date:**	12/11/2009 9:30:00 AM
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/16/2009
Lab ID:	0912332-09	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/16/2009 4:19:05 PM
Methylene Chloride	ND	3.0		µg/L	1	12/16/2009 4:19:05 PM
n-Butylbenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
n-Propylbenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
sec-Butylbenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Styrene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
tert-Butylbenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/16/2009 4:19:05 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
trans-1,2-DCE	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/16/2009 4:19:05 PM
Vinyl chloride	ND	1.0		µg/L	1	12/16/2009 4:19:05 PM
Xylenes, Total	ND	1.5		µg/L	1	12/16/2009 4:19:05 PM
Surr: 1,2-Dichloroethane-d4	99.2	54.6-141		%REC	1	12/16/2009 4:19:05 PM
Surr: 4-Bromofluorobenzene	117	60.1-133		%REC	1	12/16/2009 4:19:05 PM
Surr: Dibromofluoromethane	103	78.5-130		%REC	1	12/16/2009 4:19:05 PM
Surr: Toluene-d8	98.8	79.5-126		%REC	1	12/16/2009 4:19:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: Client Trip Blank
Lab Order: 0912332
Collection Date:
Project: LTU RCRA Soil Sampling
Date Received: 12/16/2009
Lab ID: 0912332-10
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Toluene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Ethylbenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Naphthalene	ND	2.0		µg/L	1	12/16/2009 4:46:43 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2009 4:46:43 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	12/16/2009 4:46:43 PM
Acetone	ND	10		µg/L	1	12/16/2009 4:46:43 PM
Bromobenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Bromodichloromethane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Bromoform	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Bromomethane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
2-Butanone	ND	10		µg/L	1	12/16/2009 4:46:43 PM
Carbon disulfide	ND	10		µg/L	1	12/16/2009 4:46:43 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Chlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Chloroethane	ND	2.0		µg/L	1	12/16/2009 4:46:43 PM
Chloroform	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Chloromethane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
2-Chlorotoluene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
4-Chlorotoluene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
cis-1,2-DCE	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	12/16/2009 4:46:43 PM
Dibromochloromethane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Dibromomethane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	12/16/2009 4:46:43 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
2-Hexanone	ND	10		µg/L	1	12/16/2009 4:46:43 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *29-Dec-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Client Trip Blank
Lab Order:	0912332	**Collection Date:**	
Project:	LTU RCRA Soil Sampling	**Date Received:**	12/16/2009
Lab ID:	0912332-10	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	12/16/2009 4:46:43 PM
Methylene Chloride	ND	3.0		µg/L	1	12/16/2009 4:46:43 PM
n-Butylbenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
n-Propylbenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
sec-Butylbenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Styrene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
tert-Butylbenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	12/16/2009 4:46:43 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
trans-1,2-DCE	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	12/16/2009 4:46:43 PM
Vinyl chloride	ND	1.0		µg/L	1	12/16/2009 4:46:43 PM
Xylenes, Total	ND	1.5		µg/L	1	12/16/2009 4:46:43 PM
Surr: 1,2-Dichloroethane-d4	98.8	54.6-141		%REC	1	12/16/2009 4:46:43 PM
Surr: 4-Bromofluorobenzene	117	60.1-133		%REC	1	12/16/2009 4:46:43 PM
Surr: Dibromofluoromethane	103	78.5-130		%REC	1	12/16/2009 4:46:43 PM
Surr: Toluene-d8	99.9	79.5-126		%REC	1	12/16/2009 4:46:43 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-001	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-01B / TZ-1-371-121109	**Sampling Time**	4:25 PM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Arsenic	1.49	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Barium	275	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Beryllium	1.50	mg/kg	1	12/22/2009	JTT	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Chromium	22.1	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cobalt	8.01	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cyanide	ND	mg/kg	0.5	12/23/2009	JTT	EPA 9012B	
Lead	13.3	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Mercury-CV	ND	mg/Kg	0.05	12/23/2009	CAS	EPA 7471A	
Nickel	16.1	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Selenium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Silver	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Vanadium	29.6	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Zinc	25.4	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
%moisture	12.6	Percent		12/22/2009	JTT	%moisture	

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-003	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-02C / TZ-1-2521-121109	**Sampling Time**	3:20 PM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Arsenic	1.72	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Barium	281	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Beryllium	1.70	mg/kg	1	12/22/2009	JTT	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Chromium	29.6	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cobalt	9.54	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cyanide	ND	mg/kg	0.5	12/23/2009	JTT	EPA 9012B	
Lead	14.6	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Mercury-CV	ND	mg/Kg	0.05	12/23/2009	CAS	EPA 7471A	
Nickel	22.8	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Selenium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Silver	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Vanadium	35.7	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Zinc	36.8	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
%moisture	20	Percent		12/21/2009	CAS	%moisture	

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-005	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-03C / TZ-2-4139-121109	**Sampling Time**	1:05 PM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Arsenic	1.60	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Barium	326	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Beryllium	1.91	mg/kg	1	12/22/2009	JTT	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Chromium	32.3	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cobalt	10.3	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cyanide	ND	mg/kg	0.5	12/23/2009	JTT	EPA 9012B	
Lead	15.6	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Mercury-CV	ND	mg/Kg	0.05	12/23/2009	CAS	EPA 7471A	
Nickel	21.9	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Selenium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Silver	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Vanadium	40.3	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Zinc	35.3	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
%moisture	15.7	Percent		12/21/2009	CAS	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-007	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-04C / TZ-2-8334-121109	**Sampling Time**	1:30 PM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Arsenic	1.68	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Barium	328	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Beryllium	1.53	mg/kg	1	12/22/2009	JTT	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Chromium	27.6	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cobalt	8.61	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cyanide	ND	mg/kg	0.5	12/23/2009	JTT	EPA 9012B	
Lead	16.6	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Mercury-CV	0.135	mg/Kg	0.05	12/23/2009	CAS	EPA 7471A	
Nickel	17.9	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Selenium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Silver	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Vanadium	33.2	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Zinc	44.7	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
%moisture	16.9	Percent		12/21/2009	CAS	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-009	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-05C / TZ-3-3414-121109	**Sampling Time**	12:35 PM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Arsenic	1.71	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Barium	462	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Beryllium	1.65	mg/kg	1	12/22/2009	JTT	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Chromium	29.5	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cobalt	9.93	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cyanide	ND	mg/kg	0.5	12/23/2009	JTT	EPA 9012B	
Lead	15.5	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Mercury-CV	ND	mg/Kg	0.05	12/23/2009	CAS	EPA 7471A	
Nickel	20.8	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Selenium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Silver	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Vanadium	36.2	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Zinc	33.2	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
%moisture	14.7	Percent		12/21/2009	CAS	%moisture	

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-011	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-06C / ZOI-3-7544-121109	**Sampling Time**	2:00 PM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Arsenic	2.69	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Barium	441	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Beryllium	1.61	mg/kg	1	12/22/2009	JTT	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Chromium	135	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cobalt	9.59	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cyanide	6.74	mg/kg	0.5	12/23/2009	JTT	EPA 9012B	
Lead	23.6	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Mercury-CV	0.399	mg/Kg	0.05	12/23/2009	CAS	EPA 7471A	
Nickel	24.2	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Selenium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Silver	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Vanadium	40.9	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Zinc	152	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
%moisture	14.5	Percent		12/21/2009	CAS	%moisture	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-013	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-07C / TZ-3-7544-121109	**Sampling Time**	2:30 PM		
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Arsenic	1.40	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Barium	393	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Beryllium	1.70	mg/kg	1	12/22/2009	JTT	EPA 6020A	
Cadmium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Chromium	28.3	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cobalt	9.20	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Cyanide	ND	mg/kg	0.5	12/23/2009	JTT	EPA 9012B	
Lead	14.8	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Mercury-CV	ND	mg/Kg	0.05	12/23/2009	CAS	EPA 7471A	
Nickel	18.7	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Selenium	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Silver	ND	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Vanadium	35.7	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
Zinc	30.5	mg/Kg	1	12/22/2009	JTT	EPA 6020A	
%moisture	12.9	Percent		12/21/2009	CAS	%moisture	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87693; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-001	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-01B / TZ-1-371-121109	**Sampling Time**	4:25 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-001	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-01B / TZ-1-371-121109	**Sampling Time**	4:25 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Toluene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091217019-001

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	92.8	70-130
4-Bromofluorobenzene	EPA 8260B	97.2	70-130
Toluene-d8	EPA 8260B	102.0	70-130

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number 091217019-002 **Sampling Date** 12/11/2009 **Date/Time Received** 12/17/2009 11:33 AM
Client Sample ID 0912332-02B / TZ-1-2521-121109 **Sampling Time** 3:20 PM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Toluene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-002	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-02B / TZ-1-2521-121109	**Sampling Time**	3:20 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091217019-002

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	90.8	70-130
4-Bromofluorobenzene	EPA 8260B	95.6	70-130
Toluene-d8	EPA 8260B	102.8	70-130

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number 091217019-004 **Sampling Date** 12/11/2009 **Date/Time Received** 12/17/2009 11:33 AM
Client Sample ID 0912332-03B / TZ-2-4139-121109 **Sampling Time** 1:05 PM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Toluene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-004	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-03B / TZ-2-4139-121109	**Sampling Time**	1:05 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091217019-004

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	90.4	70-130
4-Bromofluorobenzene	EPA 8260B	95.6	70-130
Toluene-d8	EPA 8260B	103.6	70-130

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number 091217019-006 **Sampling Date** 12/11/2009 **Date/Time Received** 12/17/2009 11:33 AM
Client Sample ID 0912332-04B / TZ-2-8334-121109 **Sampling Time** 1:30 PM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Toluene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-006	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-04B / TZ-2-8334-121109	**Sampling Time**	1:30 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091217019-006

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	91.2	70-130
4-Bromofluorobenzene	EPA 8260B	96.4	70-130
Toluene-d8	EPA 8260B	102.4	70-130

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-008	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-05B / TZ-3-3414-121109	**Sampling Time**	12:35 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Toluene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-008	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-05B / TZ-3-3414-121109	**Sampling Time**	12:35 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091217019-008

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	91.2	70-130
4-Bromofluorobenzene	EPA 8260B	95.6	70-130
Toluene-d8	EPA 8260B	103.2	70-130

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number 091217019-010 **Sampling Date** 12/11/2009 **Date/Time Received** 12/17/2009 11:33 AM
Client Sample ID 0912332-06B / ZOI-3-7544-121109 **Sampling Time** 2:00 PM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Toluene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

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ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-010	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-06B / ZOI-3-7544-121109	**Sampling Time**	2:00 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091217019-010

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	90.8	70-130
4-Bromofluorobenzene	EPA 8260B	96.0	70-130
Toluene-d8	EPA 8260B	102.8	70-130

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number 091217019-012 **Sampling Date** 12/11/2009 **Date/Time Received** 12/17/2009 11:33 AM
Client Sample ID 0912332-07B / TZ-3-7544-121109 **Sampling Time** 2:30 PM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,1-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dibromoethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
1,2-Dichloroethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Acetone	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Benzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Carbon disulfide	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chlorobenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloroform	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Chloromethane	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Ethylbenzene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
m+p-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
Methylene chloride	ND	mg/kg	0.025	12/22/2009	CAS	EPA 8260B	
o-Xylene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Styrene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Tetrachloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Toluene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-012	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-07B / TZ-3-7544-121109	**Sampling Time**	2:30 PM		
Matrix	Soil				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
trans-1,2-Dichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	
Trichloroethene	ND	mg/kg	0.005	12/22/2009	CAS	EPA 8260B	

Surrogate Data

Sample Number 091217019-012

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	91.6	70-130
4-Bromofluorobenzene	EPA 8260B	97.2	70-130
Toluene-d8	EPA 8260B	102.4	70-130

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-001	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-01B / TZ-1-371-121109	**Sampling Time**	4:25 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
5+6-Methylchrysene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzenethiole	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	0.082	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Chrysene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Cresol (total)	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Diethylphthalate	0.158	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

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Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-001	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-01B / TZ-1-371-121109	**Sampling Time**	4:25 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Di-n-octylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Naphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Nitrobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091217019-001

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	71.3	19-122
2-Fluorobiphenyl	EPA 8270C	95.2	30-115
2-Fluorophenol	EPA 8270C	70.5	25-121
Nitrobenzene-d5	EPA 8270C	70.8	17-112
Phenol-d5	EPA 8270C	86.6	24-113
Terphenyl-d14	EPA 8270C	112.5	18-137

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-003	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-02C / TZ-1-2521-121109	**Sampling Time**	3:20 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
5+6-Methylchrysene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzenethiole	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	0.101	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Chrysene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Cresol (total)	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Diethylphthalate	0.185	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-003	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-02C / TZ-1-2521-121109	**Sampling Time**	3:20 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Naphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Nitrobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091217019-003

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	72.1	19-122
2-Fluorobiphenyl	EPA 8270C	95.5	30-115
2-Fluorophenol	EPA 8270C	68.7	25-121
Nitrobenzene-d5	EPA 8270C	66.6	17-112
Phenol-d5	EPA 8270C	83.8	24-113
Terphenyl-d14	EPA 8270C	118.6	18-137

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-005	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-03C / TZ-2-4139-121109	**Sampling Time**	1:05 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
5+6-Methylchrysene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzenethiole	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	0.093	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Chrysene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Cresol (total)	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Diethylphthalate	0.143	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-005	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-03C / TZ-2-4139-121109	**Sampling Time**	1:05 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Naphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Nitrobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091217019-005

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	73.5	19-122
2-Fluorobiphenyl	EPA 8270C	95.4	30-115
2-Fluorophenol	EPA 8270C	65.5	25-121
Nitrobenzene-d5	EPA 8270C	62.0	17-112
Phenol-d5	EPA 8270C	85.8	24-113
Terphenyl-d14	EPA 8270C	117.0	18-137

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-007	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-04C / TZ-2-8334-121109	**Sampling Time**	1:30 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
5+6-Methylchrysene	0.817	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzenethiole	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]pyrene	0.237	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	0.195	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Chrysene	0.328	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Cresol (total)	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Diethylphthalate	0.133	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-butylphthalate	0.135	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-007	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-04C / TZ-2-8334-121109	**Sampling Time**	1:30 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Naphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Nitrobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyrene	0.105	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091217019-007

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	81.9	19-122
2-Fluorobiphenyl	EPA 8270C	91.0	30-115
2-Fluorophenol	EPA 8270C	65.0	25-121
Nitrobenzene-d5	EPA 8270C	59.1	17-112
Phenol-d5	EPA 8270C	83.0	24-113
Terphenyl-d14	EPA 8270C	109.2	18-137

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-009	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-05C / TZ-3-3414-121109	**Sampling Time**	12:35 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
5+6-Methylchrysene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzenethiole	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	0.101	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Chrysene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Cresol (total)	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Diethylphthalate	0.063	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-009	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-05C / TZ-3-3414-121109	**Sampling Time**	12:35 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Naphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Nitrobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091217019-009

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	69.0	19-122
2-Fluorobiphenyl	EPA 8270C	92.1	30-115
2-Fluorophenol	EPA 8270C	65.4	25-121
Nitrobenzene-d5	EPA 8270C	60.6	17-112
Phenol-d5	EPA 8270C	83.7	24-113
Terphenyl-d14	EPA 8270C	112.5	18-137

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-011	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009	11:33 AM
Client Sample ID	0912332-06C / ZOI-3-7544-121109	**Sampling Time**	2:00 PM	**Extraction Date**	12/21/2009	
Matrix	Soil	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
5+6-Methylchrysene	4.73	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzenethiole	0.401	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]anthracene	0.361	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]pyrene	2.60	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Chrysene	1.54	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Cresol (total)	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	0.531	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Diethylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	0912332
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-011	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-06C / ZOI-3-7544-121109	**Sampling Time**	2:00 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	0.294	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Naphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Nitrobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenanthrene	0.121	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyrene	0.125	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091217019-011

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	94.9	19-122
2-Fluorobiphenyl	EPA 8270C	99.4	30-115
2-Fluorophenol	EPA 8270C	71.2	25-121
Nitrobenzene-d5	EPA 8270C	68.4	17-112
Phenol-d5	EPA 8270C	92.3	24-113
Terphenyl-d14	EPA 8270C	106.8	18-137

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 091217019
Project Name: 0912332

Analytical Results Report

Sample Number	091217019-013	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-07C / TZ-3-7544-121109	**Sampling Time**	2:30 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1,4-Dioxane	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
1-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4,6-TRICHLOROPHENOL	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Chlorophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylnaphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
2-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
3+4-Methylphenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
4-Nitrophenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
5+6-Methylchrysene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Acenaphthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzenethiole	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo(j)fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[a]pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Benzyl alcohol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Butylbenzylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Chrysene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Cresol (total)	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Diethylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Dimethylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-butylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Di-n-octylphthalate	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	091217019
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	0912332
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	091217019-013	**Sampling Date**	12/11/2009	**Date/Time Received**	12/17/2009 11:33 AM
Client Sample ID	0912332-07C / TZ-3-7544-121109	**Sampling Time**	2:30 PM	**Extraction Date**	12/21/2009
Matrix	Soil	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Fluoranthene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Fluorene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Naphthalene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Nitrobenzene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenanthrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Phenol	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyrene	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Pyridine	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	
Quinoline	ND	mg/kg	0.05	12/23/2009	EMP	EPA 8270C	

Surrogate Data

Sample Number 091217019-013

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	81.0	19-122
2-Fluorobiphenyl	EPA 8270C	85.4	30-115
2-Fluorophenol	EPA 8270C	64.4	25-121
Nitrobenzene-d5	EPA 8270C	58.4	17-112
Phenol-d5	EPA 8270C	78.9	24-113
Terphenyl-d14	EPA 8270C	88.6	18-137

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287

QA/QC SUMMARY REPORT

lient: Western Refining Southwest, Gallup
roject: LTU RCRA Soil Sampling **Work Order:** 0912332

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ethod: EPA Method 8015B: Diesel Range Organics											
ample ID: MB-20895		*MBLK*				Batch ID:	**20895**	Analysis Date:	12/16/2009 10:55:17 PM		
esel Range Organics (DRO)	ND	mg/Kg	10								
otor Oil Range Organics (MRO)	ND	mg/Kg	50								
ample ID: LCS-20895		*LCS*				Batch ID:	**20895**	Analysis Date:	12/16/2009 11:30:06 PM		
iesel Range Organics (DRO)	43.78	mg/Kg	10	50	0	87.6	64.6	116			
ethod: EPA Method 8015B: Gasoline Range											
ample ID: LCS-20901		*LCS*				Batch ID:	**20901**	Analysis Date:	12/17/2009 8:29:26 PM		
asoline Range Organics (GRO)	30.51	mg/Kg	5.0	25	0	122	77.7	135			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: LTU RCRA Soil Sampling **Work Order:** 0912332

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml rb		*MBLK*									
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Batch ID: **R36602** Analysis Date: 12/16/2009 8:46:26 AM

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: LTU RCRA Soil Sampling **Work Order:** 0912332

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml rb		*MBLK*				Batch ID: **R36602**		Analysis Date: 12/16/2009 8:46:26 AM			
-Methyl-2-pentanone	ND	µg/L	10								
lethylene Chloride	ND	µg/L	3.0								
-Butylbenzene	ND	µg/L	1.0								
-Propylbenzene	ND	µg/L	1.0								
ec-Butylbenzene	ND	µg/L	1.0								
tyrene	ND	µg/L	1.0								
ert-Butylbenzene	ND	µg/L	1.0								
,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
etrachloroethene (PCE)	ND	µg/L	1.0								
ans-1,2-DCE	ND	µg/L	1.0								
ans-1,3-Dichloropropene	ND	µg/L	1.0								
,2,3-Trichlorobenzene	ND	µg/L	1.0								
,2,4-Trichlorobenzene	ND	µg/L	1.0								
,1,1-Trichloroethane	ND	µg/L	1.0								
,1,2-Trichloroethane	ND	µg/L	1.0								
richloroethene (TCE)	ND	µg/L	1.0								
richlorofluoromethane	ND	µg/L	1.0								
,2,3-Trichloropropane	ND	µg/L	2.0								
inyl chloride	ND	µg/L	1.0								
ylenes, Total	ND	µg/L	1.5								
ample ID: 100ng lcs		*LCS*				Batch ID: **R36602**		Analysis Date: 12/16/2009 9:41:48 AM			
enzene	19.89	µg/L	1.0	20	0	99.5	76.7	114			
oluene	20.85	µg/L	1.0	20	0	104	78.4	117			
hlorobenzene	21.20	µg/L	1.0	20	0	106	80.7	127			
,1-Dichloroethene	22.87	µg/L	1.0	20	0	114	80.2	128			
richloroethene (TCE)	16.62	µg/L	1.0	20	0	83.1	77.4	115			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU | Date Received: 12/16/2009

Work Order Number 0912332 | Received by: ARS

Checklist completed by: _____ 12/16/09 (Signature / Date) | Sample ID labels checked by: _____ (Initials)

Matrix: | Carrier name UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	_____ <2 >12 unless noted below.
Container/Temp Blank temperature?	**5.3°**	<6° C *Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Gallup Refinery / Western Refining

Mailing Address: Route 3 Box 7, Gallup, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-722-0210

QA/QC Package: ☑ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ NELAP ☐ Other ____

☐ EDD (Type) ____

Turn-Around Time: ☐ Standard ☑ Rush 1 week

Project Name: LTU RCRA Soil Sampling

Project #: LTU sampling

Project Manager: Cheryl Johnson

Sampler: Grant Price

On Ice: ☑ Yes ☐ No

Sample Temperature: 5.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 091233	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	See attached modified list for LTU				Air Bubbles (Y or N)
12/11/09	16:25	soil	TZ-1-371-121109	3x4oz	none	-1												X				
12/11/09	15:20	soil	TZ-1-2521-121109			-2												X				
12/11/09	13:05	soil	TZ-2-4139-121109			-3												X				
12/11/09	13:30	soil	TZ-2-8334-121109			-4												X				
12/11/09	12:35	soil	TZ-3-3414-121109			-5												X				
12/11/09	14:00	soil	ZOI-3-7544-121109			-6												X				
12/11/09	14:30	soil	TZ-3-7544-121109	↓	↓	-7												X				
12/11/09	9:10	water	FB121109	3 VOA	HCL	-8										X						
12/11/09	9:30	water	FB121109	3 VOA	HCL	-9										X						
/	/	water	Trip Blank	3 VOA	HCL	-10										X						

Date	Time	Relinquished by	Received by	Date	Time
12/11/09	1700	Grant Price	[signature]	12/11/09	1700
			[signature]	12/16/09	10:15

Remarks: TZ-3-7544-121109 ~~-~~ 12/11/09

only 2 jars for TZ-1-371-121109

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, March 09, 2010

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-0227
FAX (505) 722-0210

RE: Post Closure Monitoring

Order No.: 1003061

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 7 sample(s) on 3/3/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc. **Date:** *09-Mar-10*

CLIENT: Western Refining Southwest, Gallup
Project: Post Closure Monitoring
Lab Order: 1003061

CASE NARRATIVE

Acetone was detected in the trip blanks, and not the actual samples. This is likely contamination from the laboratory.

Hall Environmental Analysis Laboratory, Inc.

Date: *09-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	MW1-000-2-10
Lab Order:	1003061	**Collection Date:**	3/1/2010 11:15:00 AM
Project:	Post Closure Monitoring	**Date Received:**	3/3/2010
Lab ID:	1003061-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/4/2010 1:37:19 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/4/2010 1:37:19 PM
Surr: DNOP	116	58-140		%REC	1	3/4/2010 1:37:19 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/5/2010 1:33:35 AM
Surr: BFB	95.7	55.2-107		%REC	1	3/5/2010 1:33:35 AM
EPA METHOD 7470: MERCURY						Analyst: **SNV**
Mercury	ND	0.00020		mg/L	1	3/8/2010 2:29:25 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Barium	ND	0.020		mg/L	1	3/5/2010 11:38:56 AM
Beryllium	ND	0.0030		mg/L	1	3/5/2010 11:38:56 AM
Cadmium	ND	0.0020		mg/L	1	3/5/2010 11:38:56 AM
Chromium	ND	0.0060		mg/L	1	3/5/2010 11:38:56 AM
Cobalt	ND	0.0060		mg/L	1	3/5/2010 11:38:56 AM
Lead	ND	0.0050		mg/L	1	3/5/2010 11:38:56 AM
Nickel	ND	0.010		mg/L	1	3/5/2010 11:38:56 AM
Silver	ND	0.0050		mg/L	1	3/5/2010 11:38:56 AM
Vanadium	ND	0.050		mg/L	1	3/5/2010 11:38:56 AM
Zinc	ND	0.020		mg/L	1	3/5/2010 11:38:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *09-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	MW1-000-2-10-B
Lab Order:	1003061	**Collection Date:**	
Project:	Post Closure Monitoring	**Date Received:**	3/3/2010
Lab ID:	1003061-02	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/5/2010 2:34:12 AM
Surr: BFB	89.5	55.2-107		%REC	1	3/5/2010 2:34:12 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *09-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	MW2-000-2-10
Lab Order:	1003061	**Collection Date:**	3/1/2010 2:11:00 PM
Project:	Post Closure Monitoring	**Date Received:**	3/3/2010
Lab ID:	1003061-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/4/2010 2:13:17 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/4/2010 2:13:17 PM
Surr: DNOP	105	58-140		%REC	1	3/4/2010 2:13:17 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/5/2010 3:04:33 AM
Surr: BFB	92.6	55.2-107		%REC	1	3/5/2010 3:04:33 AM
EPA METHOD 7470: MERCURY						Analyst: **SNV**
Mercury	ND	0.00020		mg/L	1	3/8/2010 2:31:16 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Barium	ND	0.020		mg/L	1	3/5/2010 12:08:11 PM
Beryllium	ND	0.0030		mg/L	1	3/5/2010 12:08:11 PM
Cadmium	ND	0.0020		mg/L	1	3/5/2010 12:08:11 PM
Chromium	ND	0.0060		mg/L	1	3/5/2010 12:08:11 PM
Cobalt	ND	0.0060		mg/L	1	3/5/2010 12:08:11 PM
Lead	ND	0.0050		mg/L	1	3/5/2010 12:08:11 PM
Nickel	ND	0.010		mg/L	1	3/5/2010 12:08:11 PM
Silver	ND	0.0050		mg/L	1	3/5/2010 12:08:11 PM
Vanadium	ND	0.050		mg/L	1	3/5/2010 12:08:11 PM
Zinc	ND	0.020		mg/L	1	3/5/2010 12:08:11 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *09-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	MW4-000-2-10
Lab Order:	1003061	**Collection Date:**	3/2/2010 10:47:00 AM
Project:	Post Closure Monitoring	**Date Received:**	3/3/2010
Lab ID:	1003061-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/4/2010 2:49:13 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/4/2010 2:49:13 PM
Surr: DNOP	106	58-140		%REC	1	3/4/2010 2:49:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/5/2010 3:34:48 AM
Surr: BFB	88.7	55.2-107		%REC	1	3/5/2010 3:34:48 AM
EPA METHOD 7470: MERCURY						Analyst: **SNV**
Mercury	ND	0.00020		mg/L	1	3/8/2010 2:33:07 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Barium	0.023	0.020		mg/L	1	3/5/2010 12:14:59 PM
Beryllium	ND	0.0030		mg/L	1	3/5/2010 12:14:59 PM
Cadmium	ND	0.0020		mg/L	1	3/5/2010 12:14:59 PM
Chromium	ND	0.0060		mg/L	1	3/5/2010 12:14:59 PM
Cobalt	ND	0.0060		mg/L	1	3/5/2010 12:14:59 PM
Lead	ND	0.0050		mg/L	1	3/5/2010 12:14:59 PM
Nickel	ND	0.010		mg/L	1	3/5/2010 12:14:59 PM
Silver	ND	0.0050		mg/L	1	3/5/2010 12:14:59 PM
Vanadium	ND	0.050		mg/L	1	3/5/2010 12:14:59 PM
Zinc	ND	0.020		mg/L	1	3/5/2010 12:14:59 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *09-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	MW5-000-2-10
Lab Order:	1003061	**Collection Date:**	3/1/2010 4:19:00 PM
Project:	Post Closure Monitoring	**Date Received:**	3/3/2010
Lab ID:	1003061-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/4/2010 3:25:26 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/4/2010 3:25:26 PM
Surr: DNOP	106	58-140		%REC	1	3/4/2010 3:25:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/5/2010 4:04:58 AM
Surr: BFB	95.9	55.2-107		%REC	1	3/5/2010 4:04:58 AM
EPA METHOD 7470: MERCURY						Analyst: **SNV**
Mercury	ND	0.00020		mg/L	1	3/8/2010 2:34:51 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Barium	0.024	0.020		mg/L	1	3/5/2010 12:23:27 PM
Beryllium	ND	0.0030		mg/L	1	3/5/2010 12:23:27 PM
Cadmium	ND	0.0020		mg/L	1	3/5/2010 12:23:27 PM
Chromium	ND	0.0060		mg/L	1	3/5/2010 12:23:27 PM
Cobalt	ND	0.0060		mg/L	1	3/5/2010 12:23:27 PM
Lead	ND	0.0050		mg/L	1	3/5/2010 12:23:27 PM
Nickel	ND	0.010		mg/L	1	3/5/2010 12:23:27 PM
Silver	ND	0.0050		mg/L	1	3/5/2010 12:23:27 PM
Vanadium	ND	0.050		mg/L	1	3/5/2010 12:23:27 PM
Zinc	ND	0.020		mg/L	1	3/5/2010 12:23:27 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *09-Mar-10*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	SMW4-000-2-10
Lab Order:	1003061	**Collection Date:**	3/1/2010 12:03:00 PM
Project:	Post Closure Monitoring	**Date Received:**	3/3/2010
Lab ID:	1003061-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	3/4/2010 4:01:24 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	3/4/2010 4:01:24 PM
Surr: DNOP	122	58-140		%REC	1	3/4/2010 4:01:24 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	3/5/2010 4:35:08 AM
Surr: BFB	86.6	55.2-107		%REC	1	3/5/2010 4:35:08 AM
EPA METHOD 7470: MERCURY						Analyst: **SNV**
Mercury	ND	0.00020		mg/L	1	3/8/2010 2:36:36 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **RAGS**
Barium	0.035	0.020		mg/L	1	3/5/2010 12:30:18 PM
Beryllium	ND	0.0030		mg/L	1	3/5/2010 12:30:18 PM
Cadmium	ND	0.0020		mg/L	1	3/5/2010 12:30:18 PM
Chromium	0.0082	0.0060		mg/L	1	3/5/2010 12:30:18 PM
Cobalt	0.026	0.0060		mg/L	1	3/5/2010 12:30:18 PM
Lead	ND	0.0050		mg/L	1	3/5/2010 12:30:18 PM
Nickel	ND	0.010		mg/L	1	3/5/2010 12:30:18 PM
Silver	ND	0.0050		mg/L	1	3/5/2010 12:30:18 PM
Vanadium	ND	0.050		mg/L	1	3/5/2010 12:30:18 PM
Zinc	ND	0.020		mg/L	1	3/5/2010 12:30:18 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-003	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-01E / MW1-000-2-10	**Sampling Time**	11:15 AM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	
Arsenic	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	
Selenium	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-007	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-03E / MW2-000-2-10	**Sampling Time**	2:11 PM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	
Arsenic	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	
Selenium	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-012	**Sampling Date**	3/2/2010	**Date/Time Received**	3/4/2010 11:00 AM
Client Sample ID	1003061-05E / MW4-000-2-10	**Sampling Time**	10:47 AM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	
Arsenic	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	
Selenium	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-016	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-08E / MW5-000-2-10	**Sampling Time**	4:19 PM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	
Arsenic	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	
Selenium	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-020	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-07E / SMW4-000-2-10	**Sampling Time**	12:03 PM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Antimony	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	
Arsenic	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	
Selenium	ND	mg/L	0.005	3/9/2010	JTT	EPA 6020A	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287; MT:Cert0095

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-008	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-03F / MW2-000-2-10	**Sampling Time**	2:11 PM			
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	3/9/2010	KME	EPA 335.4	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-013	**Sampling Date**	3/2/2010	**Date/Time Received**	3/4/2010 11:00 AM
Client Sample ID	1003061-05F / MW4-000-2-10	**Sampling Time**	10:47 AM		
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	*mg/L*	0.01	3/9/2010	KME	EPA 335.4	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-017	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-06F / MW5-000-2-10	**Sampling Time**	4:19 PM			
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	3/9/2010	KME	EPA 335.4	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-021	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM	
Client Sample ID	1003061-07F / SMW4-000-2-10	**Sampling Time**	12:03 PM				
Matrix	Water	**Sample Location**					
Comments							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	3/9/2010	KME	EPA 335.4	

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-001	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010 11:00 AM
Client Sample ID	1003061-01B / MW1-000-2-10	**Sampling Time**	11:15 AM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

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Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-001	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-01B / MW1-000-2-10	**Sampling Time**	11:15 AM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Styrene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Tetrachloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

Surrogate Data

Sample Number 100304013-001

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	98.8	70-130
4-Bromofluorobenzene	EPA 8260B	98.0	70-130
Toluene-d8	EPA 8260B	99.2	70-130

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Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-005	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-03B / MW2-000-2-10	**Sampling Time**	2:11 PM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Acetone	2.73	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-005	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010 11:00 AM
Client Sample ID	1003061-03B / MW2-000-2-10	**Sampling Time**	2:11 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Tetrachloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

Surrogate Data

Sample Number 100304013-005

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	98.4	70-130
4-Bromofluorobenzene	EPA 8260B	98.4	70-130
Toluene-d8	EPA 8260B	99.2	70-130

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ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-009	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-04B / MW5000-2-10-B	**Sampling Time**				
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Acetone	3.36	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

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Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-009	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-04B / MW5000-2-10-B	**Sampling Time**				
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Tetrachloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

Surrogate Data

Sample Number 100304013-009

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	97.6	70-130
4-Bromofluorobenzene	EPA 8260B	98.0	70-130
Toluene-d8	EPA 8260B	100.0	70-130

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Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-010	**Sampling Date**	3/2/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-05B / MW4-000-2-10	**Sampling Time**	10:47 AM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

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ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-010	**Sampling Date**	3/2/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-05B / MW4-000-2-10	**Sampling Time**	10:47 AM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Tetrachloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

Surrogate Data

Sample Number 100304013-010

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	98.4	70-130
4-Bromofluorobenzene	EPA 8260B	98.0	70-130
Toluene-d8	EPA 8260B	99.6	70-130

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number 100304013-014 **Sampling Date** 3/1/2010 **Date/Time Received** 3/4/2010 11:00 AM
Client Sample ID 1003061-06B / MW5-000-2-10 **Sampling Time** 4:19 PM
Matrix Water
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-014	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-06B / MW5-000-2-10	**Sampling Time**	4:19 PM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Tetrachloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

Surrogate Data

Sample Number 100304013-014

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	97.2	70-130
4-Bromofluorobenzene	EPA 8260B	98.0	70-130
Toluene-d8	EPA 8260B	99.6	70-130

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Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-018	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-07B / SMW4-000-2-10	**Sampling Time**	12:03 PM			
Matrix	Water					
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1-Trichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,1-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dibromoethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
1,2-Dichloroethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Acetone	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Benzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Carbon disulfide	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chlorobenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloroform	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Chloromethane	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Ethylbenzene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
m+p-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
Methylene chloride	ND	ug/L	2.5	3/5/2010	CAS	EPA 8260B	
o-Xylene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Styrene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

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Project Name: 1003061

Analytical Results Report

Sample Number	100304013-018	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010 11:00 AM
Client Sample ID	1003061-07B / SMW4-000-2-10	**Sampling Time**	12:03 PM		
Matrix	Water				
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Tetrachloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Toluene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
trans-1,2-Dichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	
Trichloroethene	ND	ug/L	0.5	3/5/2010	CAS	EPA 8260B	

Surrogate Data

Sample Number 100304013-018

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260B	98.4	70-130
4-Bromofluorobenzene	EPA 8260B	98.4	70-130
Toluene-d8	EPA 8260B	99.2	70-130

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-002	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-01C / MW1-000-2-10	**Sampling Time**	11:15 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2,4-Trichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2-Diphenyl hydrazine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3,5-TNB	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3-DNB	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,4-Naphthoquinone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1-Methylnaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1-Naphthylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,2-Oxybis(1-chloropropane)	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,3,5,6-Tetrachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4,5-Trichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4,6-Trichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287; MT:Cert0095

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
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Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-002	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-01C / MW1-000-2-10	**Sampling Time**	11:15 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2,6-Dichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,6-Dinitrotoluene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Acetylaminofluorene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Chloronaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Chlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Methylnaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Naphthylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Nitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Picoline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3,3'-Dichlorobenzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3,3-Dimethylbenzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3+4-Methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3-Methylcholanthrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Aminobiphenyl	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Bromophenyl-phenylether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Chloro-3-methylphenol	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
4-Chloroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Project Name: 1003061

Analytical Results Report

Sample Number	100304013-002	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-01C / MW1-000-2-10	**Sampling Time**	11:15 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorophenyl-phenylether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Nitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Nitroquinoline-1-oxide	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
5-Nitro-o-toluidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
a,a-Dimethylphenethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acenaphthene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acenaphthylene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acetonphenone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Aniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Anthracene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Aramite	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzo(ghi)perylene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzo[a]anthracene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[a]pyrene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzyl alcohol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Chloroethoxy)methane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-002	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010 11:00 AM
Client Sample ID	1003061-01C / MW1-000=2=10	**Sampling Time**	11:15 AM	**Extraction Date**	3/8/2010
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Chloroethyl)ether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-chloroisopropyl)ether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
Butylbenzylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Carbazole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Chlorobenzilate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Chrysene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Diallate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Dibenzofuran	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Diethylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dimethoate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dimethylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Di-n-butylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Di-n-octylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
diphenylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Disulfoton	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Ethyl methanesulfonate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Ethyl parathion	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Fluoranthene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Fluorene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Sample Number	100304013-002	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-01C / MW1-000-2-10	**Sampling Time**	11:15 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Hexachlorobenzene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
Hexachlorobutadiene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachlorocyclopentadiene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachloroethane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachloropropene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachorophene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Isodrin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Isophorone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Isosafrole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Kepone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methapyrilene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methyl methanesulfonate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methyl parathion	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Naphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Nitrobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Nitrosodimethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-nitrosodibutylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosodiethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitroso-di-n-propylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosodiphenylamine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	

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Sample Number	100304013-002	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-01C / MW1-000-2-10	**Sampling Time**	11:15 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
n-Nitrosomethylethylamine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	
n-Nitrosomorpholine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosopiperadine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosopyrrolidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
o,o,o-Triethyl phosphorothioate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
o-Toluidine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	
p-(Dimethylamino)azobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachloroethane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachloronitrobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenacetin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenanthrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phorate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
p-Phenylenediamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pronamide	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pyrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pyridine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Safrole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Sulfotep	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	1003061
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-002	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-01C / MW1-000-2-10	**Sampling Time**	11:15 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Thionazin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,4-Dioxane	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
5-Methylchrysene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
6-Methylchrysene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
Benzenethiole	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
Quinoline	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	

Surrogate Data

Sample Number 100304013-002

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	75.9	10-123
2-Fluorobiphenyl	EPA 8270C	96.6	19-130
2-Fluorophenol	EPA 8270C	80.4	21-110
Nitrobenzene-d5	EPA 8270C	107.1	25-130
Phenol-d5	EPA 8270C	96.4	10-125
Terphenyl-d14	EPA 8270C	106.8	33-141

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Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-006	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-03C / MW2-000-2-10	**Sampling Time**	2:11 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2,4-Trichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2-Diphenyl hydrazine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3,5-TNB	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3-DNB	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,4-Naphthoquinone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1-Methylnaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1-Naphthylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,2-Oxybis(1-chloropropane)	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,3,5,6-Tetrachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4,5-Trichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4,6-Trichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,6-Dichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-006	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-03C / MW2-000-2-10	**Sampling Time**	2:11 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2,6-Dinitrotoluene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Acetylaminofluorene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Chloronaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Chlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Methylnaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Naphthylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Nitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Picoline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3,3'-Dichlorobenzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3,3-Dimethylbenzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3+4-Methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3-Methylcholanthrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Aminobiphenyl	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Bromophenyl-phenylether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Chloro-3-methylphenol	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
4-Chloroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Chlorophenyl-phenylether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-006	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-03C / MW2-000-2-10	**Sampling Time**	2:11 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Nitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Nitroquinoline-1-oxide	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
5-Nitro-o-toluidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
a,a-Dimethylphenethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acenaphthene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acenaphthylene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acetonphenone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Aniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Anthracene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Aramite	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzo(ghi)perylene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzo[a]anthracene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[a]pyrene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzyl alcohol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Chloroethoxy)methane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Chloroethyl)ether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-006	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-03C / MW2-000-2-10	**Sampling Time**	2:11 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-chloroisopropyl)ether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
Butylbenzylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Carbazole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Chlorobenzilate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Chrysene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Diallate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Dibenzofuran	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Diethylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dimethoate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dimethylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Di-n-butylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Di-n-octylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
diphenylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Disulfoton	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Ethyl methanesulfonate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Ethyl parathion	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Fluoranthene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Fluorene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachlorobenzene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	

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Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-006	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-03C / MW2-000-2-10	**Sampling Time**	2:11 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Hexachlorobutadiene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachlorocyclopentadiene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachloroethane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachloropropene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachorophene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Isodrin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Isophorone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Isosafrole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Kepone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methapyrilene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methyl methanesulfonate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methyl parathion	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Naphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Nitrobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Nitrosodimethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-nitrosodibutylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosodiethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitroso-di-n-propylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosodiphenylamine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	
n-Nitrosomethylethylamine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	

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ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-006	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-03C / MW2-000-2-10	**Sampling Time**	2:11 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
n-Nitrosomorpholine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosopiperadine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosopyrrolidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
o,o,o-Triethyl phosphorothioate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
o-Toluidine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	
p-(Dimethylamino)azobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachloroethane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachloronitrobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenacetin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenanthrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phorate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
p-Phenylenediamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pronamide	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pyrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pyridine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Safrole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Sulfotep	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Thionazin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Project Name: 1003061

Analytical Results Report

Sample Number	100304013-006	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-03C / MW2-000-2-10	**Sampling Time**	2:11 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
5-Methylchrysene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
6-Methylchrysene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
Benzenethiole	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
Quinoline	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	

Surrogate Data

Sample Number 100304013-006

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	82.2	10-123
2-Fluorobiphenyl	EPA 8270C	90.9	19-130
2-Fluorophenol	EPA 8270C	84.4	21-110
Nitrobenzene-d5	EPA 8270C	102.2	25-130
Phenol-d5	EPA 8270C	98.9	10-125
Terphenyl-d14	EPA 8270C	101.4	33-141

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Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-011	**Sampling Date**	3/2/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-05C / MW4-000-2-10	**Sampling Time**	10:47 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2,4-Trichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2-Diphenyl hydrazine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3,5-TNB	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3-DNB	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,4-Naphthoquinone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1-Methylnaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1-Naphthylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,2-Oxybis(1-chloropropane)	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,3,5,6-Tetrachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4,5-Trichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4,6-Trichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,6-Dichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-011	**Sampling Date**	3/2/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-05C / MW4-000-2-10	**Sampling Time**	10:47 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2,6-Dinitrotoluene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Acetylaminofluorene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Chloronaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Chlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Methylnaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Naphthylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Nitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Picoline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3,3'-Dichlorobenzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3,3-Dimethylbenzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3+4-Methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3-Methylcholanthrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Aminobiphenyl	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Bromophenyl-phenylether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Chloro-3-methylphenol	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
4-Chloroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Chlorophenyl-phenylether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-011	**Sampling Date**	3/2/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-05C / MW4-000-2-10	**Sampling Time**	10:47 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Nitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Nitroquinoline-1-oxide	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
5-Nitro-o-toluidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
a,a-Dimethylphenethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acenaphthene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acenaphthylene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acetonphenone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Aniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Anthracene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Aramite	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzo(ghi)perylene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzo[a]anthracene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[a]pyrene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzyl alcohol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Chloroethoxy)methane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Chloroethyl)ether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Analytical Results Report

Sample Number	100304013-011	**Sampling Date**	3/2/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-05C / MW4-000-2-10	**Sampling Time**	10:47 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-chloroisopropyl)ether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
Butylbenzylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Carbazole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Chlorobenzilate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Chrysene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Diallate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Dibenzofuran	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Diethylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dimethoate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dimethylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Di-n-butylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Di-n-octylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
diphenylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Disulfoton	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Ethyl methanesulfonate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Ethyl parathion	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Fluoranthene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Fluorene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachlorobenzene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	

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Analytical Results Report

Sample Number	100304013-011	**Sampling Date**	3/2/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-05C / MW4-000-2-10	**Sampling Time**	10:47 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Hexachlorobutadiene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachlorocyclopentadiene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachloroethane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachloropropene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachorophene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Isodrin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Isophorone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Isosafrole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Kepone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methapyrilene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methyl methanesulfonate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methyl parathion	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Naphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Nitrobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Nitrosodimethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-nitrosodibutylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosodiethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitroso-di-n-propylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosodiphenylamine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	
n-Nitrosomethylethylamine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	

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Analytical Results Report

Sample Number	100304013-011	**Sampling Date**	3/2/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-05C / MW4-000-2-10	**Sampling Time**	10:47 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
n-Nitrosomorpholine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosopiperadine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosopyrrolidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
o,o,o-Triethyl phosphorothioate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
o-Toluidine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	
p-(Dimethylamino)azobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachloroethane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachloronitrobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenacetin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenanthrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phorate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
p-Phenylenediamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pronamide	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pyrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pyridine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Safrole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Sulfotep	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Thionazin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Project Name: 1003061

Analytical Results Report

Sample Number	100304013-011	**Sampling Date**	3/2/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-05C / MW4-000-2-10	**Sampling Time**	10:47 AM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
5-Methylchrysene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
6-Methylchrysene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
Benzenethiole	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
Quinoline	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	

Surrogate Data

Sample Number 100304013-011

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	78.5	10-123
2-Fluorobiphenyl	EPA 8270C	88.7	19-130
2-Fluorophenol	EPA 8270C	82.5	21-110
Nitrobenzene-d5	EPA 8270C	102.6	25-130
Phenol-d5	EPA 8270C	96.2	10-125
Terphenyl-d14	EPA 8270C	98.8	33-141

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Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-015	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-06C / MW5-000-2-10	**Sampling Time**	4:19 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2,4-Trichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2-Diphenyl hydrazine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3,5-TNB	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3-DNB	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,4-Naphthoquinone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1-Methylnaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1-Naphthylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,2-Oxybis(1-chloropropane)	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,3,5,6-Tetrachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4,5-Trichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4,6-Trichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,6-Dichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-015	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-06C / MW5-000-2-10	**Sampling Time**	4:19 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2,6-Dinitrotoluene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Acetylaminofluorene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Chloronaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Chlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Methylnaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Naphthylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Nitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Picoline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3,3'-Dichlorobenzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3,3-Dimethylbenzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3+4-Methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3-Methylcholanthrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Aminobiphenyl	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Bromophenyl-phenylether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Chloro-3-methylphenol	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
4-Chloroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Chlorophenyl-phenylether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-015	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-08C / MW5-000-2-10	**Sampling Time**	4:19 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Nitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Nitroquinoline-1-oxide	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
5-Nitro-o-toluidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
a,a-Dimethylphenethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acenaphthene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acenaphthylene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acetonphenone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Aniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Anthracene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Aramite	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzo(ghi)perylene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzo[a]anthracene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[a]pyrene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzyl alcohol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Chloroethoxy)methane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Chloroethyl)ether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-015	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-08C / MW5-000-2-10	**Sampling Time**	4:19 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-chloroisopropyl)ether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
Butylbenzylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Carbazole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Chlorobenzilate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Chrysene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Diallate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Dibenzofuran	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Diethylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dimethoate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dimethylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Di-n-butylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Di-n-octylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
diphenylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Disulfoton	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Ethyl methanesulfonate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Ethyl parathion	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Fluoranthene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Fluorene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachlorobenzene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-015	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-06C / MW5-000-2-10	**Sampling Time**	4:19 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Hexachlorobutadiene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachlorocyclopentadiene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachloroethane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachloropropene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachorophene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Isodrin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Isophorone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Isosafrole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Kepone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methapyrilene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methyl methanesulfonate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methyl parathion	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Naphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Nitrobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Nitrosodimethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-nitrosodibutylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosodiethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitroso-di-n-propylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosodiphenylamine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	
n-Nitrosomethylethylamine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-015	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-06C / MW5-000-2-10	**Sampling Time**	4:19 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
n-Nitrosomorpholine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosopiperadine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosopyrrolidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
o,o,o-Triethyl phosphorothioate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
o-Toluidine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	
p-(Dimethylamino)azobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachloroethane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachloronitrobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenacetin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenanthrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phorate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
p-Phenylenediamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pronamide	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pyrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pyridine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Safrole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Sulfotep	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Thionazin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-015	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-06C / MW5-000-2-10	**Sampling Time**	4:19 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
5-Methylchrysene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
6-Methylchrysene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
Benzenethiole	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
Quinoline	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	

Surrogate Data

Sample Number 100304013-015

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	77.7	10-123
2-Fluorobiphenyl	EPA 8270C	90.3	19-130
2-Fluorophenol	EPA 8270C	82.7	21-110
Nitrobenzene-d5	EPA 8270C	103.4	25-130
Phenol-d5	EPA 8270C	97.8	10-125
Terphenyl-d14	EPA 8270C	99.2	33-141

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-019	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-07C / SMW4-000-2-10	**Sampling Time**	12:03 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2,4-Trichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,2-Diphenyl hydrazine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3,5-TNB	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,3-DNB	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,4-Dichlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1,4-Naphthoquinone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1-Methylnaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
1-Naphthylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,2-Oxybis(1-chloropropane)	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,3,5,6-Tetrachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4,5-Trichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4,6-Trichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dimethylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dinitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,4-Dinitrotoluene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2,6-Dichlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-019	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-07C / SMW4-000-2-10	**Sampling Time**	12:03 PM	**Extraction Date**	3/6/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2,6-Dinitrotoluene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Acetylaminofluorene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Chloronaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Chlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Methylnaphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Naphthylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Nitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
2-Picoline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3,3'-Dichlorobenzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3,3-Dimethylbenzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3+4-Methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3-Methylcholanthrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
3-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4,6-Dinitro-2-methylphenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Aminobiphenyl	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Bromophenyl-phenylether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Chloro-3-methylphenol	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
4-Chloroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Chlorophenyl-phenylether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-019	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-07C / SMW4-000-2-10	**Sampling Time**	12:03 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Nitroaniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Nitrophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
4-Nitroquinoline-1-oxide	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
5-Nitro-o-toluidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
a,a-Dimethylphenethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acenaphthene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acenaphthylene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Acetonphenone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Aniline	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Anthracene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Aramite	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzo(ghi)perylene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Benzo[a]anthracene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[a]pyrene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[b]fluoranthene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzo[k]fluoranthene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Benzyl alcohol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Chloroethoxy)methane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Chloroethyl)ether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-019	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-07C / SMW4-000-2-10	**Sampling Time**	12:03 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-chloroisopropyl)ether	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
Butylbenzylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Carbazole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Chlorobenzilate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Chrysene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Diallate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dibenz[a,h]anthracene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Dibenzofuran	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Diethylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dimethoate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Dimethylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Di-n-butylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Di-n-octylphthalate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
diphenylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Disulfoton	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Ethyl methanesulfonate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Ethyl parathion	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Fluoranthene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Fluorene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachlorobenzene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	

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Address: 4901 HAWKINS NE SUITE D
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Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-019	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-07C / SMW4-000-2-10	**Sampling Time**	12:03 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Hexachlorobutadiene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachlorocyclopentadiene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachloroethane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachloropropene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Hexachorophene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.1	3/9/2010	EMP	EPA 8270C	
Isodrin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Isophorone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Isosafrole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Kepone	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methapyrilene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methyl methanesulfonate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Methyl parathion	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Naphthalene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Nitrobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Nitrosodimethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-nitrosodibutylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosodiethylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitroso-di-n-propylamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosodiphenylamine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	
n-Nitrosomethylethylamine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Sample Number	100304013-019	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-07C / SMW4-000-2-10	**Sampling Time**	12:03 PM	**Extraction Date**	3/8/2010	
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
n-Nitrosomorpholine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosopiperadine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
n-Nitrosopyrrolidine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
o,o,o-Triethyl phosphorothioate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
o-Toluidine	ND	ug/L	2	3/9/2010	EMP	EPA 8270C	
p-(Dimethylamino)azobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachlorobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachloroethane	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachloronitrobenzene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pentachlorophenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenacetin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenanthrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phenol	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Phorate	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
p-Phenylenediamine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pronamide	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pyrene	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Pyridine	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Safrole	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Sulfotep	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	
Thionazin	ND	ug/L	10	3/9/2010	EMP	EPA 8270C	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	100304013
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-019	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010 11:00 AM
Client Sample ID	1003061-07C / SMW4-000-2-10	**Sampling Time**	12:03 PM	**Extraction Date**	3/8/2010
Matrix	Water	**Sample Location**			
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,4-Dioxane	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
5-Methylchrysene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
6-Methylchrysene	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
Benzenethiole	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	
Dibenz(a,j)acridine	ND	ug/L	1	3/9/2010	EMP	EPA 8270C	
Quinoline	ND	ug/L	5	3/9/2010	EMP	EPA 8270C	

Surrogate Data

Sample Number 100304013-019

Surrogate Standard	Method	Percent Recovery	Control Limits
2,4,6-Tribromophenol	EPA 8270C	83.0	10-123
2-Fluorobiphenyl	EPA 8270C	90.9	19-130
2-Fluorophenol	EPA 8270C	86.1	21-110
Nitrobenzene-d5	EPA 8270C	104.5	25-130
Phenol-d5	EPA 8270C	99.4	10-125
Terphenyl-d14	EPA 8270C	103.2	33-141

Authorized Signature

John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0026; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287; MT:Cert0095

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Post Closure Monitoring **Work Order:** 1003061

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-21542		*MBLK*				Batch ID:	**21542**	Analysis Date:		3/4/2010 11:49:12 AM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-21542		*LCS*				Batch ID:	**21542**	Analysis Date:		3/4/2010 12:25:25 PM	
Diesel Range Organics (DRO)	4.747	mg/L	1.0	5	0	94.9	74	157			
Sample ID: LCSD-21542		*LCSD*				Batch ID:	**21542**	Analysis Date:		3/4/2010 1:01:23 PM	
Diesel Range Organics (DRO)	5.110	mg/L	1.0	5	0	102	74	157	7.37	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R37630**	Analysis Date:		3/4/2010 9:20:28 AM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R37630**	Analysis Date:		3/4/2010 6:59:28 PM	
Gasoline Range Organics (GRO)	0.4664	mg/L	0.050	0.5	0	93.3	80	115			
Sample ID: 2.5UG GRO LCSD		*LCSD*				Batch ID:	**R37630**	Analysis Date:		3/4/2010 7:29:51 PM	
Gasoline Range Organics (GRO)	0.4900	mg/L	0.050	0.5	0	98.0	80	115	4.94	8.39	
Method: EPA Method 7470: Mercury											
Sample ID: MB-21570		*MBLK*				Batch ID:	**21570**	Analysis Date:		3/8/2010 2:23:58 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-21570		*LCS*				Batch ID:	**21570**	Analysis Date:		3/8/2010 2:25:48 PM	
Mercury	0.005045	mg/L	0.00020	0.005	3E-05	100	80	120			
Sample ID: LCS-21570		*LCS*				Batch ID:	**21570**	Analysis Date:		3/8/2010 2:27:40 PM	
Mercury	0.005116	mg/L	0.00020	0.005	3E-05	102	80	120			

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

ient: Western Refining Southwest, Gallup
oject: Post Closure Monitoring **Work Order:** 1003061

nalyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ethod: EPA 6010B: Total Recoverable Metals											
mple ID: MB-21552		*MBLK*				Batch ID: **21552**		Analysis Date: 3/5/2010 11:20:46 AM			
rium	ND	mg/L	0.020								
ryllium	ND	mg/L	0.0030								
dmium	ND	mg/L	0.0020								
romium	ND	mg/L	0.0060								
balt	ND	mg/L	0.0060								
ad	ND	mg/L	0.0050								
ckel	ND	mg/L	0.010								
ver	ND	mg/L	0.0050								
nadium	ND	mg/L	0.050								
nc	ND	mg/L	0.020								
mple ID: LCS-21552		*LCS*				Batch ID: **21552**		Analysis Date: 3/5/2010 11:23:36 AM			
rium	0.4676	mg/L	0.020	0.5	0	93.5	80	120			
ryllium	0.5075	mg/L	0.0030	0.5	0	102	80	120			
dmium	0.4811	mg/L	0.0020	0.5	0	96.2	80	120			
romium	0.4860	mg/L	0.0060	0.5	0	97.2	80	120			
balt	0.4824	mg/L	0.0060	0.5	0	96.5	80	120			
ad	0.4679	mg/L	0.0050	0.5	0	93.6	80	120			
ckel	0.4569	mg/L	0.010	0.5	0	91.4	80	120			
lver	0.4849	mg/L	0.0050	0.5	0.0017	96.6	80	120			
anadium	0.5020	mg/L	0.050	0.5	0	100	80	120			
nc	0.4501	mg/L	0.020	0.5	0	90.0	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Cyanide	0.506	mg/L	0.5	101.2	80-120	3/9/2010	3/9/2010

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
100304013-021	Cyanide	ND	0.497	mg/L	0.5	99.4	70-130	3/9/2010	3/9/2010

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Cyanide	0.509	mg/L	0.5	101.8	2.4	0-25	3/9/2010	3/9/2010

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Cyanide	ND	mg/L	0.01	3/9/2010	3/9/2010

AR Acceptable Range
ND Not Detected
PQL Practical Quantitation Limit
RPD Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287; MT:Cert0095

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Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Selenium	0.0491	mg/L	0.05	98.2	80-120	3/8/2010	3/9/2010
Arsenic	0.0497	mg/L	0.05	99.4	80-120	3/8/2010	3/9/2010
Antimony	0.0582	mg/L	0.05	116.4	80-120	3/8/2010	3/9/2010

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Selenium	0.0494	mg/L	0.05	98.8	0.6	0-20	3/8/2010	3/9/2010
Arsenic	0.0499	mg/L	0.05	99.8	0.4	0-20	3/8/2010	3/9/2010
Antimony	0.0576	mg/L	0.05	115.2	1.0	0-20	3/8/2010	3/9/2010

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
100305032-001A	Selenium	0.0218	0.0680	mg/L	0.05	92.4	75-125	3/8/2010	3/9/2010
100305032-001A	Arsenic	ND	0.0535	mg/L	0.05	107.0	75-125	3/8/2010	3/9/2010
100305032-001A	Antimony	ND	0.0588	mg/L	0.05	117.6	75-125	3/8/2010	3/9/2010

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Selenium	0.0710	mg/L	0.05	98.4	4.3	0-20	3/8/2010	3/9/2010
Arsenic	0.0534	mg/L	0.05	106.8	0.2	0-20	3/8/2010	3/9/2010
Antimony	0.0589	mg/L	0.05	117.8	0.2	0-20	3/8/2010	3/9/2010

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Antimony	ND	mg/L	0.001	3/8/2010	3/9/2010
Arsenic	ND	mg/L	0.001	3/8/2010	3/9/2010
Selenium	ND	mg/L	0.001	3/8/2010	3/9/2010

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287; MT:Cert0095

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Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1003061
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	100304013-004	**Sampling Date**	3/1/2010	**Date/Time Received**	3/4/2010	11:00 AM
Client Sample ID	1003061-01F / MW1-000-2-10	**Sampling Time**	11:15 AM			
Matrix	Water	**Sample Location**				
Comments						

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide	ND	mg/L	0.01	3/9/2010	KME	EPA 335.4	

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Address: 4901 HAWKINS NE SUITE D
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Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Trichloroethene	4.89	ug/L	5	97.8	74-129	3/5/2010	3/5/2010
Toluene	4.75	ug/L	5	95.0	75-126	3/5/2010	3/5/2010
Tetrachloroethene	4.98	ug/L	5	99.6	71-127	3/5/2010	3/5/2010
o-Xylene	4.70	ug/L	5	94.0	81-121	3/5/2010	3/5/2010
Ethylbenzene	4.69	ug/L	5	93.8	77-123	3/5/2010	3/5/2010
Chlorobenzene	4.68	ug/L	5	93.6	79-119	3/5/2010	3/5/2010
Benzene	4.81	ug/L	5	96.2	76-127	3/5/2010	3/5/2010
1,1-Dichloroethene	5.00	ug/L	5	100.0	69-139	3/5/2010	3/5/2010

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
100304013-001	Trichloroethene	ND	11.6	ug/L	10	116.0	68-144	3/5/2010	3/5/2010
100304013-001	Toluene	ND	11.7	ug/L	10	117.0	64-145	3/5/2010	3/5/2010
100304013-001	Tetrachloroethene	ND	12.1	ug/L	10	121.0	62-143	3/5/2010	3/5/2010
100304013-001	o-Xylene	ND	11.1	ug/L	10	111.0	68-142	3/5/2010	3/5/2010
100304013-001	Ethylbenzene	ND	11.6	ug/L	10	116.0	76-133	3/5/2010	3/5/2010
100304013-001	Chlorobenzene	ND	11.1	ug/L	10	111.0	77-125	3/5/2010	3/5/2010
100304013-001	Benzene	ND	11.4	ug/L	10	114.0	73-137	3/5/2010	3/5/2010
100304013-001	1,1-Dichloroethene	ND	12.8	ug/L	10	128.0	70-154	3/5/2010	3/5/2010

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1-Trichloroethane	ND	ug/L	0.5	3/5/2010	3/5/2010
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	3/5/2010	3/5/2010
1,1-Dichloroethane	ND	ug/L	0.5	3/5/2010	3/5/2010
1,1-Dichloroethene	ND	ug/L	0.5	3/5/2010	3/5/2010
1,2-Dibromoethane	ND	ug/L	0.5	3/5/2010	3/5/2010
1,2-Dichloroethane	ND	ug/L	0.5	3/5/2010	3/5/2010
Acetone	ND	ug/L	2.5	3/5/2010	3/5/2010
Benzene	ND	ug/L	0.5	3/5/2010	3/5/2010
Carbon disulfide	ND	ug/L	0.5	3/5/2010	3/5/2010
Chlorobenzene	ND	ug/L	0.5	3/5/2010	3/5/2010

Comments:

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Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287; MT:Cert0095

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Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 100304013
Project Name: 1003061

Analytical Results Report

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Parameter	Result	Units	PQL	Prep Date	Analysis Date
Chloroform	ND	ug/L	0.5	3/5/2010	3/5/2010
Chloromethane	ND	ug/L	0.5	3/5/2010	3/5/2010
Ethylbenzene	ND	ug/L	0.5	3/5/2010	3/5/2010
m+p-Xylene	ND	ug/L	0.5	3/5/2010	3/5/2010
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	3/5/2010	3/5/2010
Methylene chloride	ND	ug/L	2.5	3/5/2010	3/5/2010
o-Xylene	ND	ug/L	0.5	3/5/2010	3/5/2010
Styrene	ND	ug/L	0.5	3/5/2010	3/5/2010
Tetrachloroethene	ND	ug/L	0.5	3/5/2010	3/5/2010
Toluene	ND	ug/L	0.5	3/5/2010	3/5/2010
trans-1,2-Dichloroethene	ND	ug/L	0.5	3/5/2010	3/5/2010
Trichloroethene	ND	ug/L	0.5	3/5/2010	3/5/2010

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

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Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Pyrene	5.05	ug/L	5	101.0	45-138	3/8/2010	3/9/2010
Phenol	4.90	ug/L	5	98.0	45-134	3/8/2010	3/9/2010
Pentachlorophenol	3.83	ug/L	5	76.6	22-138	3/8/2010	3/9/2010
n-Nitroso-di-n-propylamine	5.70	ug/L	5	114.0	46-135	3/8/2010	3/9/2010
bis(2-Ethylhexyl)phthalate	4.92	ug/L	5	98.4	89-166	3/8/2010	3/9/2010
Acenaphthene	4.60	ug/L	5	92.0	36-122	3/8/2010	3/9/2010
4-Nitrophenol	5.01	ug/L	5	100.2	19-137	3/8/2010	3/9/2010
4-Chloro-3-methylphenol	4.70	ug/L	5	94.0	42-139	3/8/2010	3/9/2010
2-Chlorophenol	4.78	ug/L	5	95.6	50-131	3/8/2010	3/9/2010
2,4-Dinitrotoluene	5.51	ug/L	5	110.2	49-134	3/8/2010	3/9/2010
1,4-Dichlorobenzene	3.20	ug/L	5	64.0	13-96	3/8/2010	3/9/2010
1,2,4-Trichlorobenzene	3.22	ug/L	5	64.4	12-93	3/8/2010	3/9/2010

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
100303039-004C	Pyrene	ND	4.81	ug/L	5	96.2	45-138	3/8/2010	3/9/2010
100303039-004C	Phenol	ND	4.72	ug/L	5	94.4	45-134	3/8/2010	3/9/2010
100303039-004C	Pentachlorophenol	ND	4.32	ug/L	5	86.4	22-138	3/8/2010	3/9/2010
100303039-004C	n-Nitroso-di-n-propylamine	ND	5.50	ug/L	5	110.0	46-135	3/8/2010	3/9/2010
100303039-004C	bis(2-Ethylhexyl)phthalate	ND	4.67	ug/L	5	93.4	89-166	3/8/2010	3/9/2010
100303039-004C	Acenaphthene	ND	4.43	ug/L	5	88.6	36-122	3/8/2010	3/9/2010
100303039-004C	4-Nitrophenol	ND	4.90	ug/L	5	98.0	19-137	3/8/2010	3/9/2010
100303039-004C	4-Chloro-3-methylphenol	ND	4.84	ug/L	5	96.8	42-139	3/8/2010	3/9/2010
100303039-004C	2-Chlorophenol	ND	4.74	ug/L	5	94.8	50-131	3/8/2010	3/9/2010
100303039-004C	2,4-Dinitrotoluene	ND	5.40	ug/L	5	108.0	49-134	3/8/2010	3/9/2010
100303039-004C	1,4-Dichlorobenzene	ND	3.25	ug/L	5	65.0	13-96	3/8/2010	3/9/2010
100303039-004C	1,2,4-Trichlorobenzene	ND	3.11	ug/L	5	62.2	12-93	3/8/2010	3/9/2010

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Pyrene	4.92	ug/L	5	98.4	2.3	0-36	3/8/2010	3/9/2010
Phenol	4.86	ug/L	5	97.2	2.9	0-35	3/8/2010	3/9/2010

Comments:

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Analytical Results Report

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Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Pentachlorophenol	4.15	ug/L	5	83.0	4.0	0-47	3/8/2010	3/9/2010
n-Nitroso-di-n-propylamine	5.65	ug/L	5	113.0	2.7	0-38	3/8/2010	3/9/2010
bis(2-Ethylhexyl)phthalate	4.70	ug/L	5	94.0	0.6	0-50	3/8/2010	3/9/2010
Acenaphthene	4.61	ug/L	5	92.2	4.0	0-23	3/8/2010	3/9/2010
4-Nitrophenol	4.85	ug/L	5	97.0	1.0	0-50	3/8/2010	3/9/2010
4-Chloro-3-methylphenol	4.86	ug/L	5	97.2	0.4	0-33	3/8/2010	3/9/2010
2-Chlorophenol	4.70	ug/L	5	94.0	0.8	0-50	3/8/2010	3/9/2010
2,4-Dinitrotoluene	5.67	ug/L	5	113.4	4.9	0-47	3/8/2010	3/9/2010
1,4-Dichlorobenzene	3.27	ug/L	5	65.4	0.6	0-27	3/8/2010	3/9/2010
1,2,4-Trichlorobenzene	3.16	ug/L	5	63.2	1.6	0-27	3/8/2010	3/9/2010

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Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	3/8/2010	3/9/2010
1,2,4-Trichlorobenzene	ND	ug/L	10	3/8/2010	3/9/2010
1,2-Dichlorobenzene	ND	ug/L	10	3/8/2010	3/9/2010
1,2-Diphenyl hydrazine	ND	ug/L	10	3/8/2010	3/9/2010
1,3,5-TNB	ND	ug/L	10	3/8/2010	3/9/2010
1,3-Dichlorobenzene	ND	ug/L	10	3/8/2010	3/9/2010
1,3-DNB	ND	ug/L	10	3/8/2010	3/9/2010
1,4-Dichlorobenzene	ND	ug/L	10	3/8/2010	3/9/2010
1,4-Dioxane	ND	ug/L	5	3/8/2010	3/9/2010
1,4-Naphthoquinone	ND	ug/L	10	3/8/2010	3/9/2010
1-Methylnaphthalene	ND	ug/L	10	3/8/2010	3/9/2010
1-Naphthylamine	ND	ug/L	10	3/8/2010	3/9/2010
2,2-Oxybis(1-chloropropane)	ND	ug/L	10	3/8/2010	3/9/2010
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	3/8/2010	3/9/2010
2,3,5,6-Tetrachlorophenol	ND	ug/L	10	3/8/2010	3/9/2010
2,4,5-Trichlorophenol	ND	ug/L	10	3/8/2010	3/9/2010
2,4,6-Trichlorophenol	ND	ug/L	10	3/8/2010	3/9/2010
2,4-Dichlorophenol	ND	ug/L	10	3/8/2010	3/9/2010
2,4-Dimethylphenol	ND	ug/L	10	3/8/2010	3/9/2010
2,4-Dinitrophenol	ND	ug/L	10	3/8/2010	3/9/2010
2,4-Dinitrotoluene	ND	ug/L	10	3/8/2010	3/9/2010
2,6-Dichlorophenol	ND	ug/L	10	3/8/2010	3/9/2010
2,6-Dinitrotoluene	ND	ug/L	10	3/8/2010	3/9/2010

Comments:

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Analytical Results Report

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Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
2-Acetylaminofluorene	ND	ug/L	10	3/8/2010	3/9/2010
2-Chloronaphthalene	ND	ug/L	10	3/8/2010	3/9/2010
2-Chlorophenol	ND	ug/L	10	3/8/2010	3/9/2010
2-Methylnaphthalene	ND	ug/L	10	3/8/2010	3/9/2010
2-Methylphenol	ND	ug/L	10	3/8/2010	3/9/2010
2-Naphthylamine	ND	ug/L	10	3/8/2010	3/9/2010
2-Nitroaniline	ND	ug/L	10	3/8/2010	3/9/2010
2-Nitrophenol	ND	ug/L	10	3/8/2010	3/9/2010
2-Picoline	ND	ug/L	10	3/8/2010	3/9/2010
3,3'-Dichlorobenzidine	ND	ug/L	10	3/8/2010	3/9/2010
3,3-Dimethylbenzidine	ND	ug/L	10	3/8/2010	3/9/2010
3+4-Methylphenol	ND	ug/L	10	3/8/2010	3/9/2010
3-Methylcholanthrene	ND	ug/L	10	3/8/2010	3/9/2010
3-Nitroaniline	ND	ug/L	10	3/8/2010	3/9/2010
4,6-Dinitro-2-methylphenol	ND	ug/L	10	3/8/2010	3/9/2010
4-Aminobiphenyl	ND	ug/L	10	3/8/2010	3/9/2010
4-Bromophenyl-phenylether	ND	ug/L	10	3/8/2010	3/9/2010
4-Chloro-3-methylphenol	ND	ug/L	5	3/8/2010	3/9/2010
4-Chloroaniline	ND	ug/L	10	3/8/2010	3/9/2010
4-Chlorophenyl-phenylether	ND	ug/L	10	3/8/2010	3/9/2010
4-Nitroaniline	ND	ug/L	10	3/8/2010	3/9/2010
4-Nitrophenol	ND	ug/L	10	3/8/2010	3/9/2010
4-Nitroquinoline-1-oxide	ND	ug/L	10	3/8/2010	3/9/2010
5-Methylchrysene	ND	ug/L	1	3/8/2010	3/9/2010
5-Nitro-o-toluidine	ND	ug/L	10	3/8/2010	3/9/2010
6-Methylchrysene	ND	ug/L	1	3/8/2010	3/9/2010
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10	3/8/2010	3/9/2010
a,a-Dimethylphenethylamine	ND	ug/L	10	3/8/2010	3/9/2010
Acenaphthene	ND	ug/L	10	3/8/2010	3/9/2010
Acenaphthylene	ND	ug/L	10	3/8/2010	3/9/2010
Acetonphenone	ND	ug/L	10	3/8/2010	3/9/2010
Aniline	ND	ug/L	10	3/8/2010	3/9/2010
Anthracene	ND	ug/L	10	3/8/2010	3/9/2010
Aramite	ND	ug/L	10	3/8/2010	3/9/2010
Benzenethiole	ND	ug/L	5	3/8/2010	3/9/2010
Benzidine	ND	ug/L	10	3/8/2010	3/9/2010
Benzo(ghi)perylene	ND	ug/L	10	3/8/2010	3/9/2010

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Benzo[a]anthracene	ND	ug/L	0.1	3/8/2010	3/9/2010
Benzo[a]pyrene	ND	ug/L	0.1	3/8/2010	3/9/2010
Benzo[b]fluoranthene	ND	ug/L	0.1	3/8/2010	3/9/2010
Benzo[k]fluoranthene	ND	ug/L	0.1	3/8/2010	3/9/2010
Benzyl alcohol	ND	ug/L	10	3/8/2010	3/9/2010
bis(2-Chloroethoxy)methane	ND	ug/L	10	3/8/2010	3/9/2010
bis(2-Chloroethyl)ether	ND	ug/L	10	3/8/2010	3/9/2010
bis(2-chloroisopropyl)ether	ND	ug/L	10	3/8/2010	3/9/2010
bis(2-Ethylhexyl)phthalate	ND	ug/L	5	3/8/2010	3/9/2010
Butylbenzylphthalate	ND	ug/L	10	3/8/2010	3/9/2010
Carbazole	ND	ug/L	10	3/8/2010	3/9/2010
Chlorobenzilate	ND	ug/L	10	3/8/2010	3/9/2010
Chrysene	ND	ug/L	0.1	3/8/2010	3/9/2010
Diallate	ND	ug/L	10	3/8/2010	3/9/2010
Dibenz(a,j)acridine	ND	ug/L	1	3/8/2010	3/9/2010
Dibenz[a,h]anthracene	ND	ug/L	0.1	3/8/2010	3/9/2010
Dibenzofuran	ND	ug/L	10	3/8/2010	3/9/2010
Diethylphthalate	ND	ug/L	10	3/8/2010	3/9/2010
Dimethoate	ND	ug/L	10	3/8/2010	3/9/2010
Dimethylphthalate	ND	ug/L	10	3/8/2010	3/9/2010
Di-n-butylphthalate	ND	ug/L	10	3/8/2010	3/9/2010
Di-n-octylphthalate	ND	ug/L	10	3/8/2010	3/9/2010
diphenylamine	ND	ug/L	10	3/8/2010	3/9/2010
Disulfoton	ND	ug/L	10	3/8/2010	3/9/2010
Ethyl methanesulfonate	ND	ug/L	10	3/8/2010	3/9/2010
Ethyl parathion	ND	ug/L	10	3/8/2010	3/9/2010
Fluoranthene	ND	ug/L	10	3/8/2010	3/9/2010
Fluorene	ND	ug/L	10	3/8/2010	3/9/2010
Hexachlorobenzene	ND	ug/L	1	3/8/2010	3/9/2010
Hexachlorobutadiene	ND	ug/L	10	3/8/2010	3/9/2010
Hexachlorocyclopentadiene	ND	ug/L	10	3/8/2010	3/9/2010
Hexachloroethane	ND	ug/L	10	3/8/2010	3/9/2010
Hexachloropropene	ND	ug/L	10	3/8/2010	3/9/2010
Hexachorophene	ND	ug/L	10	3/8/2010	3/9/2010
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.1	3/8/2010	3/9/2010
Isodrin	ND	ug/L	10	3/8/2010	3/9/2010
Isophorone	ND	ug/L	10	3/8/2010	3/9/2010

Comments:

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Parameter	Result	Units	PQL	Prep Date	Analysis Date
Isosafrole	ND	ug/L	10	3/8/2010	3/9/2010
Kepone	ND	ug/L	10	3/8/2010	3/9/2010
Kepone	ND	ug/L	5	3/8/2010	3/9/2010
Methapyrilene	ND	ug/L	10	3/8/2010	3/9/2010
Methyl methanesulfonate	ND	ug/L	10	3/8/2010	3/9/2010
Methyl parathion	ND	ug/L	10	3/8/2010	3/9/2010
Naphthalene	ND	ug/L	10	3/8/2010	3/9/2010
Nitrobenzene	ND	ug/L	10	3/8/2010	3/9/2010
Nitrosodimethylamine	ND	ug/L	10	3/8/2010	3/9/2010
n-nitrosodibutylamine	ND	ug/L	10	3/8/2010	3/9/2010
n-Nitrosodiethylamine	ND	ug/L	10	3/8/2010	3/9/2010
n-Nitroso-di-n-propylamine	ND	ug/L	10	3/8/2010	3/9/2010
n-Nitrosodiphenylamine	ND	ug/L	2	3/8/2010	3/9/2010
n-Nitrosomethylethylamine	ND	ug/L	2	3/8/2010	3/9/2010
n-Nitrosomorpholine	ND	ug/L	10	3/8/2010	3/9/2010
n-Nitrosopiperadine	ND	ug/L	10	3/8/2010	3/9/2010
n-Nitrosopyrrolidine	ND	ug/L	10	3/8/2010	3/9/2010
o,o,o-Triethyl phosphorothioate	ND	ug/L	10	3/8/2010	3/9/2010
o-Toluidine	ND	ug/L	2	3/8/2010	3/9/2010
p-(Dimethylamino)azobenzene	ND	ug/L	10	3/8/2010	3/9/2010
Pentachlorobenzene	ND	ug/L	10	3/8/2010	3/9/2010
Pentachloroethane	ND	ug/L	10	3/8/2010	3/9/2010
Pentachloronitrobenzene	ND	ug/L	10	3/8/2010	3/9/2010
Pentachlorophenol	ND	ug/L	10	3/8/2010	3/9/2010
Phenacetin	ND	ug/L	10	3/8/2010	3/9/2010
Phenanthrene	ND	ug/L	1	3/8/2010	3/9/2010
Phenol	ND	ug/L	10	3/8/2010	3/9/2010
Phorate	ND	ug/L	10	3/8/2010	3/9/2010
p-Phenylenediamine	ND	ug/L	10	3/8/2010	3/9/2010
Pronamide	ND	ug/L	10	3/8/2010	3/9/2010
Pyrene	ND	ug/L	10	3/8/2010	3/9/2010
Pyridine	ND	ug/L	10	3/8/2010	3/9/2010
Quinoline	ND	ug/L	5	3/8/2010	3/9/2010
Safrole	ND	ug/L	10	3/8/2010	3/9/2010
Sulfotep	ND	ug/L	10	3/8/2010	3/9/2010
Thionazin	ND	ug/L	10	3/8/2010	3/9/2010

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C1320
Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C1287; MT:Cert0095

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU Date Received: 3/3/2010

Work Order Number 1003061 Received by: AT

Checklist completed by: _____ 3/3/10 Sample ID labels checked by: TJ

Signature Date Initials

Matrix: Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	
Container/Temp Blank temperature?	1.0°	<6° C Acceptable If given sufficient time to cool.		

Number of preserved bottles checked for pH: 5

10 (<2 or >12 unless noted below.)

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: per CJ "B" samples are Trip Blanks/MT 3/3/10 (MW1 -B MW5 -B)

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining Gallup Refinery

Mailing Address: Rt 3 Box 7 Gallup, NM 87301

Phone #: 505 722 3833

email or Fax#: 505 722 0210

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush 3/9/2010

Project Name: Post Closure Monitoring

Project #: Wells

Project Manager: G Rajen

Sampler: C Johnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.6°

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA) Skinner List	per Skinner Lists				Air Bubbles (Y or N)
3-1-10	1116	H_2O	MW1-000-2-10	~~Amber~~ G-1L	None	1003061-1											X					
				40ml-6	HCl	-1												X				
				-2	HNO_3	-1												X				
				-1	NaOH	-1												X				
			MW1-000-2-10-B	40ml-1		-2		X								X	X	X				
	1411		MW2-000-2-10	Amber-1	None	-3											X	X				
				40ml-6	HCl	-3												X				
				-2	HNO_3	-3												X				
				-1	NaOH	-3												X				
			MW5-000-2-10-B	1x40ml	HCl	-4										X						

Date	Time	Relinquished by:	Received by:	Date	Time
3/2/10	1145			3/3/10	0930
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Tests per attached Skinner lists.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Western Refining Gallup Refinery

Mailing Address: Rt 3 Box 7 Gallup, NM 87301

Phone #: 505 722 3833

email or Fax#: 505 722 0210

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush 3/9/2010

Project Name: Post Closure Monitoring

Project #: Wells

Project Manager: G Rajen

Sampler: C Johnson

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1003616	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA) Skinner List	8270 SIM Skinner List				Air Bubbles (Y or N)
3/2/10	1047	H2O	MW4-000-2-10	Amber-1	None	-5											X					
				40ml-6	HCl	-5												X				
				-2	HNO_3	-5												X				
				-1	NaOH	-5												X				
3-1-10	1619		MW5-000-2-10	Amber-1	None	-6											X					
				40ml-6	HCl	-6												X				
				-2	HNO_3	-6												X				
				-1	NaOH	-6												X				
	1203		SMW4-000-2-10	Amber-1	None	-7											X					
				40ml-6	HCl	-7												X				
				-2	HNO_3	-7												X				
				-1	NaOH	-7												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/2/10	1145				
Date:	Time:	Relinquished by:	Received by:	3/3/10	0930

Remarks: Tests per attached Skinner List

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

APPENDIX H

DATA VALIDATIONS

Tier II Data Validation Report Summary

Client: Western Refining Company-Gallup, NM	Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM and Anatek Labs, Inc., Moscow, ID
Project Name: LTU RCRA Soil Sampling	Sample Matrix: Soil
Project Number: 697-039-001 Task 0005	Sample Start Date: 12/8/2009
Date Validated: 11/22/2010	Sample End Date: 12/9/2009
Parameters Included: Volatile Organic Compounds (VOC) by Solid Waste 846 (SW-846) Method 8260B, Semivolatile Organic Compounds (SVOC) by SW-846 Method 8270C, Total Metals by SW-846 Methods 6010B and 7471A, Cyanide by SW-846 Method 9012B, and Diesel Range Organics (DRO), Motor Oil Range Organics (MRO), and Gasoline Range Organics (GRO) by SW-846 Method 8015B	
Laboratory Project ID: 0912272 (Hall Environmental) and 100304013 (Anatek Labs, Inc.)	
Data Validator: Storm John, Environmental Statistician	

DATA EVALUATION CRITERIA SUMMARY

A Tier II Data Validation was performed by Trihydro Corporation's Chemical Data Evaluation Services Group on the analytical data report package generated by Hall Environmental Analysis Laboratory and Anatek Labs, Inc, evaluating samples from the Western Refining Company site, located in Gallup, NM.

Precision, accuracy, method compliance, and completeness of this data package were assessed during this data review. Precision was determined by evaluating the calculated relative percent difference (RPD) values of samples from field duplicate pairs. Laboratory accuracy was established by reviewing the demonstrated percent recoveries of matrix spike (MS) and matrix spike duplicate (MSD) samples, and of laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) to verify that data are not biased. Additionally, field accuracy was established by collecting trip blanks to monitor for possible ambient or cross contamination during sampling. Method compliance was established by reviewing holding times, detection limits, surrogate recoveries, method blanks, and the LCS and LCSD percent recoveries against method-specific requirements. Completeness was evaluated by determining the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of the chain-of-custody (CoC), laboratory analytical methods, and other necessary documents associated with this analytical data set.

Data were evaluated in general accordance with validation criteria set forth in the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, document number USEPA-540-R-08-01, June 2008 with additional reference to the USEPA CLP National Functional Guidelines for Organic Data Review, document number EPA 540/R-99-008, October 1999 and the USEPA CLP National Functional Guidelines for Inorganic Superfund Data Review, document number EPA 540R-10-011, January 2010. Review of duplicates is conducted in accordance with USEPA Region 1 Laboratory Data Validation Functional Guidelines for Evaluation of Organic Analysis, December 1996 or as specified by the method.

Tier II Data Validation Report Summary

SAMPLE NUMBERS TABLE

Client Sample ID	Hall Lab Sample ID	Anatek Lab Sample ID
ZOI-1-371-120809	0912272-01	091214017-001 & 002
ZOI-2-8334-120909	0912272-02	091214017-003 & 004
ZOI-2-4139-120909	0912272-03	091214017-005 & 006
ZOI-3-3414-120909	0912272-04	091214017-007 & 008
ZOI-1-2521-120909	0912272-05	091214017-009 & 010
BD120909	0912272-06	091214017-011 & 012
Trip Blank	0912272-07	Not Analyzed

Tier II Data Validation Report

The samples were analyzed for the required analytes. Assessment of CoC completeness is included in Section #3. The laboratory data were reviewed to evaluate compliance with the required methods and the quality of the reported data. A leading check mark (✓) indicates that the referenced validation criteria were deemed acceptable. A preceding crossed circle (⊗) indicates validation criteria for which the data may have been qualified by the data validator. Details are noted in the tables below.

Validation Criteria

- ✓ Data Completeness
- ✓ CoC Documentation
- ✓ Holding Times and Preservation
- ✓ Laboratory Blanks
- ✓ System Monitoring Compounds (i.e., Surrogates)
- ✓ Laboratory Control Samples/Laboratory Control Sample Duplicates
- ✓ Matrix Spike/Matrix Spike Duplicates
- ⊗ Field Duplicate
- ✓ Trip Blanks

OVERALL DATA PACKAGE ASSESSMENT

Based on a data validation review, the data are acceptable as delivered; exceptions (i.e., rejected data) are noted below. Data qualified by the laboratory are discussed in Section #2.

The purpose of validating data and assigning qualifiers is to assist in proper data interpretation. Data which are not qualified meet the site data quality objectives. If values are assigned qualifiers other than an R (rejected, data not usable), the data may be used for site evaluation, with the reasons for qualification being given consideration when interpreting sample concentrations. Data points which are assigned an R qualifier should not be used for site evaluation purposes. Text identified in **bold font** indicates that further action and/or qualification of the data were required. Data validation qualifiers were added for the items noted with crossed circles, above. Please see the Data Qualification Summary table at the end of this report for a complete list of samples and analytes qualified.

Data qualifiers used during this validation included:

J – Estimated concentration

UJ – Estimated reporting limit

Data Completeness

The analyses were performed as requested on the CoC records. The associated samples were received by the laboratory and analyzed properly. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

VALIDATION CRITERIA CHECKLIST	
1. Was the report free of non-conformances related to the analytical data identified by the laboratory?	No
Comments: The report was free of non-conformances related to the analytical data as identified by the laboratory with the following exception. In the Case Narrative, the laboratory noted: "S" flags denote that the surrogate was not recoverable due to sample dilution or matrix interference.	
2. Were data qualification flags or other notes used by the laboratory? If yes, define.	Yes
Comments: The laboratory used the following flags in this report. M3: The spike recovery value was unusable. The analyte concentration was disproportionate to the spike level. The blank spike recovery was acceptable.	
3. Were sample CoC forms complete?	Yes
Comments: The CoC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt.	
4. Were detection limits in accordance with the quality assurance project plan (QAPP), permit, or method, or indicated as acceptable?	Yes
Comments: The detection limits appeared to be acceptable. Method 8015B: Dilutions of up to 100 times were required for the DRO, GRO, and MRO analysis by Method 8015B.	
5. Were the requested analytical methods in compliance with the QAPP, permit, or CoC?	Yes
Comments: The requested analytical methods were in compliance with the CoC and the analyte list attached to the CoC, Modified Skinner List with the following exception. The client/project team requested that the analyte 1,4-dioxane be analyzed by Method 8260B; however the laboratory used Method 8270C as the analysis method. This is acceptable and no further action is required.	
6. Were samples received in good condition within method specified requirements?	Yes
Comments: Samples were received on ice, intact with custody seals, within the 4°C ± 2°C acceptable range at 1.3°C as noted on the Sample Receipt Checklist. Sample temperatures that were less than 2°C were determined to be acceptable because the samples bottles were not noted to be broken or frozen.	
7. Were samples analyzed within method specified or technical holding times?	Yes
Comments: The samples were analyzed within the method specified or technical holding times.	
8. Were reported units appropriate for the sample matrix/matrices and method(s) of analyses?	Yes
Comments: The results were reported in concentration units of mg/kg, which are acceptable for the soil matrix and the analyses requested.	
9. Do the laboratory reports include all constituents requested to be reported?	Yes
Comments: The laboratory reported the requested constituents in accordance with the CoC and the attached analyte list.	
10. Was there indication from the laboratory that the initial or continuing calibration verification results were within acceptable limits?	N/A
Comments: Initial and continuing calibration data were not requested or included as part of this data set; however, these data are assumed to be acceptable as the laboratory did not note that any calibration results were outside acceptable limits.	
11. Was the total number of laboratory blank samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method?	Yes
Comments: The total number of laboratory blank samples prepared was equal to at least 5% of the total number of samples.	
12. Were laboratory blank samples free of analyte contamination?	Yes
Comments: The laboratory blank samples were free of analyte contamination.	

VALIDATION CRITERIA CHECKLIST

13. Was the total number of matrix spike samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method? Yes

Comments: The total number of matrix spike samples prepared was equal to at least 5% of the total number of samples; as noted in the table below.

Analyte	Analytic Method	Analytical Batch	MS/MSD Source Sample
Mercury	7471	42223	BD120909
GRO	8015	36564	Not Prepared
DRO & MRO	8015	36578	Not Prepared
GRO	8015	36584	Not Prepared
Cyanide	9012	42223	ZOI-1-2521-120909
Metals	6010A	42223	BD120909
VOCs	8260B	36560	ZOI-2-8334-120909
VOCs	8260B	42223	ZOI-2-8334-120909
SVOCs	8270C	42223	ZOI-2-8334-120909

According to email correspondence (11/22/2010) the laboratory noted that a LCS/LCSD and sample duplicate were performed in lieu of an MS/MSD for DRO and GRO analyses because of matrix interference.

14. Were MS/MSD percent recoveries and MS/MSD RPDs within data validation or laboratory quality control (QC) limits? Yes

Comments: Project specific MS and MSD recoveries and MS/MSD RPD values were within laboratory-specified limits or data validation limits. In the metals analysis of barium, chromium, and zinc the lab noted that the spike recovery was unusable; analyte concentration was disproportionate to the spike level.

The MS and MSD spike recoveries for non-project samples were considered but data were not qualified since matrix similarity to project samples could not be guaranteed.

15. Was the total number of LCSs analyzed equal to at least 5% of the total number of samples, or analyzed as required by the method? Yes

Comments: The total number of LSC/LCSD samples analyzed was equal to at least 5% of the total number of samples required.

16. Were LCS/LCSD percent recoveries and LCS/LCSD RPDs within data validation or laboratory QC limits? Yes

Comments: The total number of LSC/LCSD samples analyzed was equal to at least 5% of the total number of samples required.

17. Were surrogate recoveries within laboratory QC limits? No

Comments: The surrogate recoveries were within laboratory QC limits, with the following exceptions. In samples ZOI-2-8334-120909, ZOI-2-4139-120909, ZOI-3-3414-120909, and BD120909, recoveries for the surrogate DNOP were outside of the laboratory QC limits of 61.7-135% at 0%, 0%, 0%, and 0%, respectively. As noted by the laboratory, the surrogate recoveries were not recovered due to dilutions or matrix interference. As it was evident that the surrogates were diluted out based on the level of dilutions and the high sample concentrations, no qualification was necessary based on professional judgment.

18. Was the number of equipment, trip, or field blanks collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit? Yes

Comments: The number of equipment, trip, or field blanks collected was equal to at least 10% of the total number of samples. One trip blank, TRIP BLANK, was collected with this data set. No equipment or field blank samples were collected with this data set.

19. Were the trip blank, field blank, and/or equipment blank samples free of analyte contamination? Yes

Comments: The trip blanks were free of analyte contamination.

20. Was the number of field duplicates collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit?	Yes
Comments: The number of field duplicates collected was equal to at least 10% of the total number of samples. Sample BD120909 was collected as a duplicate of sample ZOI-2-4139-120909.	
21. Were field duplicate RPD values within data validation QC limits (soil 0-50%, water 0-30%, or air 0-25%)?	No
Comments: Field duplicate RPD values were within the data validation QC limits of 0-50% for soil samples as listed in the Field Duplicate Table at the end of this report with the following exceptions. **The analytes 2-methylnaphthalene, benzo(a)anthracene, benzenethiol, benzo(j)fluoranthene, butyl benzyl phthalate, and pyrene were qualified as J, for detected concentrations, and as UJ, for undetected concentrations, in the parent, ZOI-2-4139-120909, and duplicate, BD120909, samples for poor repeatability.** An RPD value could not calculated for analytes which were undetected in both samples.	
22. Were laboratory duplicate RPD values within laboratory QC limits?	N/A
Comments: No laboratory duplicate were analyzed with these samples.	

FIELD DUPLICATE SUMMARY

Client Sample ID: ZOI-2-4139-120909 Field Duplicate Sample ID: BD120909			
Analyte	**Laboratory Result (mg/kg)**	**Duplicate Result (mg/kg)**	**Relative Percent Difference (RPD)**
DRO	9400	7500	22.5%
MRO	11000	7500	37.8%
1-Methylnaphthalene	ND(0.05)	0.096	DL
2-Methylnaphthalene	**ND(0.05)**	**0.116**	**DL**
2-Methylphenol	ND(0.05)	0.088	DL
Arsenic	10.5	12	13.3%
Barium	619	625	1.0%
Benzo(a)anthracene	**0.889**	**ND(0.05)**	**DL**
Benzenethiol	**3.04**	**ND(0.05)**	**DL**
Benzo(a)pyrene	12.1	9.54	23.7%
Benzo(j)fluoranthene	**ND(0.05)**	**2.92**	**DL**
Beryllium	1.5	1.28	13.8%
Butyl benzyl phthalate	**0.436**	**ND(0.05)**	**DL**
Cadmium	1.11	1	10.4%
Carbon disulfide	0.00536	0.0101	+/- RL 61.3%
Chromium	638	667	4.4%
Chrysene	13	9.92	26.9%
Cobalt	11.4	11.2	1.8%
Cresol (Total)	0.45	0.532	15.8%
Cyanide	28.9	30.9	6.7%
Ethylbenzene	ND(0.005)	0.00543	DL
Fluoranthene	ND(0.05)	0.099	DL
Lead	79.4	71.5	10.5%
m+p Cresol	0.454	0.444	2.2%
Mercury	4.23	4.15	1.9%
Nickel	33.8	36.6	8.0%
Phenol	0.2	0.194	3.0%
Pyrene	**3.63**	**1.59**	**78.2%**
Selenium	1.75	1.48	16.7%
Toluene	ND(0.005)	0.00515	DL
Vanadium	43.9	42.7	2.8%
Zinc	924	968	4.7%

Field duplicate RPD control limits are not to exceed 30% for water, 50% for soil, or 25% for air or vapor as established by USEPA Region 1 Laboratory Data Validation Function Guidelines for Evaluation of Organic Analysis, December 1996.
DL – Indicates that the analyte was detected in one of the duplicate samples and was undetected in the other sample, and therefore an RPD could not be calculated. No data were qualified since the detection was within two times the reporting limit.
The analytes bolded above were qualified as J, for detected concentrations or as UJ, for undetected concentrations in the parent, ZOI-2-4139-120909, and duplicate, BD120909, samples for poor repeatability.
+/-RL – Indicates that the detections in the samples are within two times the reporting limit. No qualification of data is required.

DATA QUALIFICATION SUMMARY

Method	Analyte	Client Sample ID	Lab Sample ID	Laboratory Result (mg/kg)	Reviewer Qualifier	Reason for Qualification
SW8270C	2-Methylnaphthalene	ZOI-2-4139-120909	0912272-03B	ND(0.05)	UJ	High field RPD values
SW8270C	2-Methylnaphthalene	BD120909	0912272-06B	0.116	J	High field RPD values
SW8270C	Benzo(a)anthracene	ZOI-2-4139-120909	0912272-03B	0.889	J	High field RPD values
SW8270C	Benzo(a)anthracene	BD120909	0912272-06B	ND(0.05)	UJ	High field RPD values
SW8270C	Benzenethiol	ZOI-2-4139-120909	0912272-03B	3.04	J	High field RPD values
SW8270C	Benzenethiol	BD120909	0912272-06B	ND(0.05)	UJ	High field RPD values
SW8270C	Benzo(j)fluoranthene	ZOI-2-4139-120909	0912272-03B	ND(0.05)	UJ	High field RPD values
SW8270C	Benzo(j)fluoranthene	BD120909	0912272-06B	2.92	J	High field RPD values
SW8270C	Butyl benzyl phthalate	ZOI-2-4139-120909	0912272-03B	0.436	J	High field RPD values
SW8270C	Butyl benzyl phthalate	BD120909	0912272-06B	ND(0.05)	UJ	High field RPD values
SW8270C	Pyrene	ZOI-2-4139-120909	0912272-03B	3.63	J	High field RPD values
SW8270C	Pyrene	BD120909	0912272-06B	1.59	J	High field RPD values

Tier II Data Validation Report Summary

Client: Western Refining Company-Gallup, NM	Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM and Anatek Labs, Inc, Moscow, ID
Project Name: LTU RCRA Soil Sampling	Sample Matrix: Soil
Project Number: 697-039-001 Task 0005	Sample Start Date: 12/11/2009
Date Validated: 11/22/2010	Sample End Date: 12/11/2009
Parameters Included: Volatile Organic Compounds (VOC) by Solid Waste 846 (SW-846) Method 8260B, Semivolatile Organic Compounds (SVOC) by SW-846 Method 8270C, Total Metals by SW-846 Methods 6010B and 7471A, Cyanide by SW-846 Method 9012B, and Diesel Range Organics (DRO), Motor Oil Range Organics (MRO), and Gasoline Range Organics (GRO) by SW-846 Method 8015B	
Laboratory Project ID: 0912332 (Hall Environmental) and 091217019 (Anatek Labs)	
Data Validator: Storm John, Environmental Statistician	

DATA EVALUATION CRITERIA SUMMARY

A Tier II Data Validation was performed by Trihydro Corporation's Chemical Data Evaluation Services Group on the analytical data report package generated by Hall Environmental Analysis Laboratory and Anatek Labs, Inc, evaluating samples from the Western Refining Company site, located in Gallup, NM.

Precision, accuracy, method compliance, and completeness of this data package were assessed during this data review. Laboratory accuracy was established by reviewing the demonstrated percent recoveries of matrix spike (MS) and matrix spike duplicate (MSD) samples, and of laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) to verify that data are not biased. Additionally, field accuracy was established by collecting equipment, field, and trip blanks to monitor for possible ambient or cross contamination during sampling. Method compliance was established by reviewing holding times, detection limits, surrogate recoveries, method blanks, and the LCS and LCSD percent recoveries against method-specific requirements. Completeness was evaluated by determining the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of the chain-of-custody (CoC), laboratory analytical methods, and other necessary documents associated with this analytical data set.

Data were evaluated in general accordance with validation criteria set forth in the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, document number USEPA-540-R-08-01, June 2008 with additional reference to the USEPA CLP National Functional Guidelines for Organic Data Review, document number EPA 540/R-99-008, October 1999 and the USEPA CLP National Functional Guidelines for Inorganic Superfund Data Review, document number EPA 540R-10-011, January 2010.

Tier II Data Validation Report Summary

SAMPLE NUMBERS TABLE

Client Sample ID	Hall Laboratory Sample ID	Anatek Laboratory Sample ID
TZ-1-371-121109	0912332-1	091217019-001
TZ-1-2521-121109	0912332-2	091217019-002 & -003
TZ-2-4139-121109	0912332-3	091217019-004 &-005
TZ-2-8334-121109	0912332-4	091217019-006 & -007
TZ-3-3414-121109	0912332-5	091217019-008 & -009
ZOI-3-7544-121109	0912332-6	091217019-010 & -011
TZ-3-7544-121109	0912332-7	091217019-012 & -013
EB121109	0912332-8	Not Analyzed
FB121109	0912332-9	Not Analyzed
Trip Blank	0912332-10	Not Analyzed

Tier II Data Validation Report

The samples were analyzed for the required analytes. Assessment of CoC completeness is included in Section #3. The laboratory data were reviewed to evaluate compliance with the required methods and the quality of the reported data. A leading check mark (✓) indicates that the referenced validation criteria were deemed acceptable. A preceding crossed circle (⊗) indicates validation criteria for which the data may have been qualified by the data validator. Details are noted in the tables below.

Validation Criteria

- ✓ Data Completeness
- ✓ CoC Documentation
- ✓ Holding Times and Preservation
- ✓ Laboratory Blanks
- ⊗ System Monitoring Compounds (i.e., Surrogates)
- ✓ Laboratory Control Samples/Laboratory Control Sample Duplicates
- ✓ Matrix Spike/Matrix Spike Duplicates
- ✓ Equipment, Trip, and Field Blanks

OVERALL DATA PACKAGE ASSESSMENT

Based on a data validation review, the data are acceptable as delivered; exceptions (i.e., rejected data) are noted below. Data qualified by the laboratory are discussed in Section #2.

The purpose of validating data and assigning qualifiers is to assist in proper data interpretation. Data which are not qualified meet the site data quality objectives. If values are assigned qualifiers other than an R (rejected, data not usable), the data may be used for site evaluation, with the reasons for qualification being given consideration when interpreting sample concentrations. Data points which are assigned an R qualifier should not be used for site evaluation purposes. Text identified in **bold font** indicates that further action and/or qualification of the data were required. Data validation qualifiers were added for the items noted with crossed circles, above. Please see the Data Qualification Summary table at the end of this report for a complete list of samples and analytes qualified.

Data Completeness

The analyses were performed as requested on the CoC records. The associated samples were received by the laboratory and analyzed properly. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

VALIDATION CRITERIA CHECKLIST	
1. Was the report free of non-conformances related to the analytical data identified by the laboratory?	Yes
Comments: The report was free of non-conformances related to the analytical data as identified by the laboratory.	
2. Were data qualification flags or other notes used by the laboratory? If yes, define.	Yes
Comments: Reported laboratory qualifiers were reviewed and were acceptable. The laboratory noted the following data qualifier. S: Spike recovery outside accepted recovery limits.	
3. Were sample CoC forms complete?	Yes
Comments: The CoC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt.	
4. Were detection limits in accordance with the quality assurance project plan (QAPP), permit, or method, or indicated as acceptable?	Yes
Comments: The detection limits appeared to be acceptable. Method 8015B: A dilution of five times was required for the DRO and MRO analysis in sample ZOI-3-7544-121109.	
5. Were the requested analytical methods in compliance with the QAPP, permit, or CoC?	Yes
Comments: The requested analytical methods were in compliance with the CoC and the analyte list attached to the CoC, Modified Skinner List with the following exception. The client/project team requested that the analyte 1,4-dioxane be analyzed by Method 8260B; however the laboratory used Method 8270C as the analysis method. This is acceptable and no further action is required.	
6. Were samples received in good condition within method specified requirements?	Yes
Comments: Samples were received on ice, intact with custody seals, within the 4°C ± 2°C acceptable range at 5.3°C as noted on the Sample Receipt Checklist.	
7. Were samples analyzed within method specified or technical holding times?	Yes
Comments: The samples were analyzed within the method specified or technical holding times.	
8. Were reported units appropriate for the sample matrix/matrices and method(s) of analyses?	Yes
Comments: The results were reported in concentration units of mg/kg, which are acceptable for the soil matrix and the analyses requested.	
9. Do the laboratory reports include all constituents requested to be reported?	Yes
Comments: The laboratory reported the requested constituents in accordance with the CoC and the attached analyte list.	
10. Was there indication from the laboratory that the initial or continuing calibration verification results were within acceptable limits?	N/A
Comments: Initial and continuing calibration data were not requested or included as part of this data set; however, these data are assumed to be acceptable as the laboratory did not note that any calibration results were outside acceptable limits.	
11. Was the total number of laboratory blank samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method?	Yes
Comments: The total number of laboratory blank samples prepared was equal to at least 5% of the total number of samples.	
12. Were laboratory blank samples free of analyte contamination?	Yes
Comments: The laboratory blank samples were free of analyte contamination.	

VALIDATION CRITERIA CHECKLIST

13. Was the total number of matrix spike samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method? Yes

Comments: The total number of matrix spike samples prepared was equal to at least 5% of the total number of samples; as noted in the table below.

Analyte	Analytic Method	Batch	MS/MSD Source Sample
VOCs	SW8260B	36602	TZ-1-371-121109
DRO & MRO	SW8015	36623	Not Prepared
GRO	SW8015	36627	Not Prepared
VOCs	SW8260B	42275	TZ-1-371-121109
SVOCs	SW8270C	42275	TZ-1-371-121109
Metals	SW6010A	42275	TZ-1-371-121109
Cyanide	SW9012	42275	TZ-3-7544-121109
Mercury	SW7471	42275	TZ-1-371-121109

According to email correspondence (11/22/2010) the laboratory noted that a LCS/LCSD and sample duplicate were performed in lieu of an MS/MSD for DRO and GRO analyses because of matrix interference.

14. Were MS/MSD percent recoveries and MS/MSD RPDs within data validation or laboratory quality control (QC) limits? Yes

Comments: Project specific MS and MSD recoveries and MS/MSD RPD values were within laboratory-specified limits or data validation limits.

15. Was the total number of LCSs analyzed equal to at least 5% of the total number of samples, or analyzed as required by the method? Yes

Comments: The total number of LSC/LCSD samples analyzed was equal to at least 5% of the total number of samples required.

16. Were LCS/LCSD percent recoveries and LCS/LCSD RPDs within data validation or laboratory QC limits? Yes

Comments: The total number of LSC/LCSD samples analyzed was equal to at least 5% of the total number of samples required.

17. Were surrogate recoveries within laboratory QC limits? No

Comments: The surrogate recoveries were within laboratory QC limits with the following exception.

The percent recovery of the surrogate *di-n-octylphthalate* in sample ZOI-3-7544-121109 was outside laboratory QC limits of 61.7-135% at 137%. The associated analytes, DRO and MRO, were detected in the sample and qualified as J due to high surrogate recovery indicating a possible high bias.

18. Was the number of equipment, trip, or field blanks collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit? Yes

Comments: The number of equipment, trip, or field blanks collected was equal to at least 10% of the total number of samples. One equipment blank, EB121109, one trip blank, TRIP BLANK, and one field blank, FB121109, were collected with this data set.

19. Were the trip blank, field blank, and/or equipment blank samples free of analyte contamination? Yes

Comments: The equipment, trip, and field blanks were free of analyte contamination.

20. Was the number of field duplicates collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit? No

Comments: No field duplicates were collected with samples of this data set.

VALIDATION CRITERIA CHECKLIST	
21. Were field duplicate RPD values within data validation QC limits (soil 0-50%, water 0-30%, or air 0-25%)?	N/A
Comments: No field duplicates were collected with samples of this data set.	
22. Were laboratory duplicate RPD values within laboratory QC limits?	N/A
Comments: No laboratory duplicates were prepared with samples of this data set.	

DATA QUALIFICATION SUMMARY

Analyte	Method	Field Sample ID	Lab Sample ID	Result (mg/kg)	Reviewer Qualifier	Reviewer Qualifier Reason
Diesel Range Organics (DRO)	SW8015	ZOI-3-7544-121109	0912332-06A	270	J	The surrogate recovery(ies) were above the acceptable limits indicating a possible high bias.
Motor Oil Range Organics (MRO)	SW8015	ZOI-3-7544-121109	0912332-06A	490	J	The surrogate recovery(ies) were above the acceptable limits indicating a possible high bias.

Tier II Data Validation Report Summary

Client: Western Refining Company-Gallup, NM	Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM and Anatek Labs, Inc, Moscow, ID
Project Name: 9 Year GW Post Closure Monitoring	Sample Matrix: Water
Project Number: 697-039-001 Task 0005	Sample Start Date: 3/1/2010
Date Validated: 11/18/2010	Sample End Date: 3/2/2010
Parameters Included: Volatile Organic Compounds (VOC) by Solid Waste 846 (SW-846) Method 8260B, Semivolatile Organic Compounds (SVOC) by SW-846 Method 8270C, Total Metals by SW-846 Methods 6010B, 6020A, and 7470, Cyanide by Environmental Protection Agency (EPA) Method 335.4, and Diesel Range Organics (DRO), Motor Oil Organics (MRO), and Gasoline Range Organics (GRO) by SW-846 Method 8015B.	
Laboratory Project ID: 1003061	
Data Validator: Storm John, Environmental Statistician	

DATA EVALUATION CRITERIA SUMMARY

A Tier II Data Validation was performed by Trihydro Corporation's Chemical Data Evaluation Services Group on the analytical data report package generated by Hall Environmental Analysis Laboratory and Anatek Labs, Inc, evaluating samples from the Western Refining Company site, located in Gallup, NM

Precision, accuracy, method compliance, and completeness of this data package were assessed during this data review. Laboratory accuracy was established by reviewing the demonstrated percent recoveries of matrix spike (MS) and matrix spike duplicate (MSD) samples, and of laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) to verify that data are not biased. Additionally, field accuracy was established by collecting trip blanks to monitor for possible ambient or cross contamination during sampling. Method compliance was established by reviewing holding times, detection limits, surrogate recoveries, method blanks, and the LCS and LCSD percent recoveries against method-specific requirements. Completeness was evaluated by determining the overall ratio of the number of samples planned versus the number of samples with valid analyses. Determination of completeness included a review of the chain-of-custody (CoC), laboratory analytical methods, and other necessary documents associated with this analytical data set.

Data were evaluated in general accordance with validation criteria set forth in the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Superfund Organic Methods Data Review, document number USEPA-540-R-08-01, June 2008 with additional reference to the USEPA CLP National Functional Guidelines for Organic Data Review, document number EPA 540/R-99-008, October 1999 and the USEPA CLP National Functional Guidelines for Inorganic Superfund Data Review, document number EPA 540R-10-011, January 2010.

SAMPLE NUMBERS TABLE

Client Sample ID	Hall Laboratory Sample ID	Anatek Laboratory Sample ID
MW1-000-2-10	1003061-01	100304013-001, -002, -003
MW1-000-2-10-B	1003061-02	Not Analyzed
MW2-000-2-10	1003061-03	100304013--005. -006, -007, -008
MW2-000-2-10-B	1003061-04	100304013-009
MW4-000-2-10	1003061-05	100304013--010, -011, -012, -113
MW5-000-2-10	1003061-06	100304013--014, 015, -016, -017
SWM4-000-2-10	1003061-07	100304013--018, -019,-020, -021

Tier II Data Validation Report Summary

The samples were analyzed for the required analytes. Assessment of CoC completeness is included in Section #3. The laboratory data were reviewed to evaluate compliance with the required methods and the quality of the reported data. A leading check mark (✓) indicates that the referenced validation criteria were deemed acceptable. A preceding crossed circle (⊗) indicates validation criteria for which the data may have been qualified by the data validator. Details are noted in the tables below.

Validation Criteria

- ✓ Data Completeness
- ✓ CoC Documentation
- ✓ Holding Times and Preservation
- ✓ Laboratory Blanks
- ✓ System Monitoring Compounds (i.e., Surrogates)
- ✓ Laboratory Control Samples/Laboratory Control Sample Duplicates (LCS/LCSD)
- ✓ Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- ⊗ Trip Blanks

OVERALL DATA PACKAGE ASSESSMENT

Based on a data validation review, the data are acceptable as delivered; exceptions (i.e., rejected data) are noted below. Data qualified by the laboratory are discussed in Section #2.

The purpose of validating data and assigning qualifiers is to assist in proper data interpretation. Data which are not qualified meet the site data quality objectives. If values are assigned qualifiers other than an R (rejected, data not usable), the data may be used for site evaluation, with the reasons for qualification being given consideration when interpreting sample concentrations. Data points which are assigned an R qualifier should not be used for site evaluation purposes. Text identified in **bold font** indicates that further action and/or qualification of the data were required. Data validation qualifiers were added for the items noted with crossed circles, above. Please see the Data Qualification Summary table at the end of this report for a complete list of samples and analytes qualified.

Data qualifiers used during this validation included:

U – Evaluated to be undetected at the reporting limit

Data Completeness

The analyses were performed as requested on the CoC records. The associated samples were received by the laboratory and analyzed properly. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

VALIDATION CRITERIA CHECKLIST	
1. Was the report free of non-conformances related to the analytical data identified by the laboratory?	No
Comments: The report was free of non-conformances related to the analytical data as identified by the laboratory with the following exception. In the Case Narrative, the laboratory noted: Acetone was detected in the trip blanks, and not the actual samples. This is likely contamination from the laboratory.	
2. Were data qualification flags or other notes used by the laboratory? If yes, define.	No
Comments: The laboratory used the following flags in the report.	
3. Were sample CoC forms complete?	Yes
Comments: The CoC records from field to laboratory were complete, and custody was maintained as evidenced by field and laboratory personnel signatures, dates, and times of receipt.	
4. Were detection limits in accordance with the quality assurance project plan (QAPP), permit, or method, or indicated as acceptable?	Yes
Comments: The detection limits were acceptable. No dilutions were required.	
5. Were the requested analytical methods in compliance with the QAPP, permit, or CoC?	Yes
Comments: The requested analytical methods were in compliance with the CoC and the analyte list attached to the CoC, Modified Skinner List.	
6. Were samples received in good condition within method specified requirements?	Yes
Comments: Samples were received on ice, intact with custody seals, within the 4°C ± 2°C acceptable range at 1.0°C as noted on the Sample Receipt Checklist. Sample temperatures that were less than 2°C were determined to be acceptable because the samples bottles were not noted to be broken or frozen. The laboratory noted that the shipping containers were sealed and custody seals were present. The laboratory also noted that the samples with the "B" suffix were trip blank samples, MW1-000-2-10-B and MW5-000-2-10-B.	
7. Were samples analyzed within method specified or technical holding times?	Yes
Comments: The samples were analyzed within the method specified or technical holding times.	
8. Were reported units appropriate for the sample matrix/matrices and method(s) of analyses?	Yes
Comments: The results were reported in concentration units of mg/L and µg/L, which are acceptable for the water matrix and the analyses requested.	
9. Do the laboratory reports include all constituents requested to be reported?	No
Comments: The laboratory reported the requested constituents in accordance with the CoC and the attached analyte list with the exception of 1,4-dioxane, by Method 8260B. The client requested 1,4-dioxane to be analyzed by Method 8260B and the laboratory analyzed it by Method 8270C. This is acceptable per the project manager and no further action is required.	
10. Was there indication from the laboratory that the initial or continuing calibration verification results were within acceptable limits?	N/A
Comments: Initial and continuing calibration data were not requested or included as part of this data set; however, these data are assumed to be acceptable as the laboratory did not note that any calibration results were outside acceptable limits.	
11. Was the total number of laboratory blank samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method?	Yes
Comments: The total number of laboratory blank samples prepared was equal to at least 5% of the total number of samples.	
12. Were laboratory blank samples free of analyte contamination?	Yes
Comments: The laboratory blank samples were free of analyte contamination.	

VALIDATION CRITERIA CHECKLIST

13. Was the total number of matrix spike samples prepared equal to at least 5% of the total number of samples, or analyzed as required by the method? Yes

Comments: The total number of matrix spike samples prepared was equal to at least 5% of the total number of samples; as noted in the table below.

Analyte	Method	QC Batch	MS/MSD Source Sample
DRO	8015B	21542	Not Prepared
GRO	8015B	R37630	Not Prepared
Mercury	7470	21570	Not Prepared
Metals	6010B	21552	Not Associated
Metals	6020A	100304013	Not Associated
Cyanide	EPA 335.4	100304013	SWM4-000-2-10
VOCs	8260B	100304013	MW1-000-2-10
SVOCs	8270C	100304013	Not Associated

The MS/MSD samples for those batches which are noted as "Not Associated" were prepared from samples not associated with this client. According to email correspondence (11/22/2010) the laboratory noted that a LCS/LCSD and sample duplicate were performed in lieu of an MS/MSD for DRO, GRO, and mercury analyses because of matrix interference.

14. Were MS/MSD percent recoveries and MS/MSD RPDs within data validation or laboratory quality control (QC) limits? Yes

Comments: Project specific MS and MSD recoveries and MS/MSD RPD values were within laboratory-specified limits or data validation limits.

The MS and MSD spike recoveries for non-project samples were considered but data were not qualified since matrix similarity to project samples could not be guaranteed.

15. Was the total number of LCSs analyzed equal to at least 5% of the total number of samples, or analyzed as required by the method? Yes

Comments: The total number of LSC/LCSD samples analyzed was equal to at least 5% of the total number of samples required. No LCSD was submitted for mercury; however, two LCS's were analyzed within the same batch and the same time frame. The RPD between the two LCS recoveries of 100% and 102% is 1.99%. This meets requirements and no further action was necessary.

16. Were LCS/LCSD percent recoveries and LCS/LCSD RPDs within data validation or laboratory QC limits? Yes

Comments: The total number of LSC/LCSD samples analyzed was equal to at least 5% of the total number of samples required.

17. Were surrogate recoveries within laboratory QC limits? Yes

Comments: The surrogate recoveries were within laboratory QC limits.

18. Was the number of equipment, trip, or field blanks collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit? Yes

Comments: The number of equipment, trip, or field blanks collected was equal to at least 10% of the total number of samples. Two trip blanks, MW1-000-2-10-B and MW5-000-2-10-B, were collected with this data set. No equipment or field blank samples were collected with this data set.

19. Were the trip blank, field blank, and/or equipment blank samples free of analyte contamination? No

Comments: The trip blanks were free of analyte contamination with the following exception.

Acetone in trip blank MW5-000-2-10-B was detected at a concentration of 3.36 µg/L. Acetone was detected in sample MW2-000-2-10 at a concentration less than the blank detected concentration and was qualified as U due to the trip blank detection.

VALIDATION CRITERIA CHECKLIST	
20. Was the number of field duplicates collected equal to at least 10% of the total number of samples, or as required by the project guidelines, QAPP, SAP, or permit?	No
Comments: No field duplicate was collected with this data set.	
21. Were field duplicate RPD values within data validation QC limits (soil 0-50%, water 0-30%, or air 0-25%)?	N/A
Comments: No field duplicate was collected with this data set.	
22. Were laboratory duplicate RPD values within laboratory QC limits?	N/A
Comments: No laboratory duplicate was collected with this data set.	

DATA QUALIFICATION SUMMARY

Analyte	Client Sample ID	Laboratory Assigned ID	Laboratory Result (µg/L)	Reviewer Qualifier	Reason for Qualification
Acetone	MW2-000-2-10	1003061-03A	2.73	U	Trip Blank Detection; common laboratory contaminant