



ENTERPRISE PRODUCTS PARTNERS L.P.  
ENTERPRISE PRODUCTS HOLDINGS LLC  
(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

December 12, 2011

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Mr. Cordell TeCube, Director  
Environmental Protection Office  
Jicarilla Apache Nation  
P.O. Box 507  
Dulce, NM 87528-0507

**RE: Enterprise Field Services, LLC - Lindrith Compressor Station  
Supplemental Environmental Site Investigation & Corrective Action Work Plan  
NE/4, SE/4, Section 18, Township 24, Range 5 West, NMPM  
NM Oil Conservation Division GW Discharge Permit No. GW-209  
Rio Arriba County, New Mexico**

Dear Mr. TeCube:

Enterprise Field Services, LLC (Enterprise) is submitting the enclosed *Supplemental Environmental Site Investigation & Corrective Action Work Plan*, dated November 30, 2011, for the facility referenced above. This work plan provides the results of a supplemental site investigation conducted during August, 2011 to complete delineation of soil and groundwater affected by historical facility operations. This supplemental investigation was performed in accordance with the July 27, 2011 *Supplemental Site Investigation Work Plan*, as submitted in correspondence to the Jicarilla Apache Nation Environmental Protection Office (JANEPO) dated July 28, 2011.

The enclosed report also provides recommendations for remedial actions in the vicinity of the former condensate storage tanks at this facility. The proposed remedial actions will utilize a mobile dual-phase extraction (MDPE) unit to recover non-aqueous phase liquids (NAPL) and vapor phase hydrocarbons from this area. This initial remediation effort will be conducted as a "pilot study" to determine the effectiveness of the system. During an estimated three month testing period, the effectiveness of the system will be evaluated. A feasibility study will be developed to determine the most effective method(s) to complete remedial actions for affected soil and groundwater at the facility. JANEPO approval of the feasibility study, and associated remedial action recommendations, will be obtained prior to implementation.

Enterprise will continue performing routine quarterly groundwater monitoring events to ensure that migration of affected groundwater does not occur from areas that have been delineated, and to evaluate the effectiveness of remedial actions in reducing groundwater constituent concentrations.

We would like to proceed with the proposed remedial actions described in the enclosed work plan as soon as possible, if the Jicarilla Environmental Protection Office has no objections or review comments. If you have any questions, or require additional information, please do not hesitate to contact me at (713) 381-2286 or [drsmith@eprod.com](mailto:drsmith@eprod.com).

Mr. Cordell TeCabe, Director  
Jicarilla EPO  
December 12, 2011  
Page 2

Sincerely,



David R. Smith, P.G.  
Sr. Environmental Scientist



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/dep  
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SUPPLEMENTAL ENVIRONMENTAL SITE INVESTIGATION &  
CORRECTIVE ACTION WORK PLAN

Property:

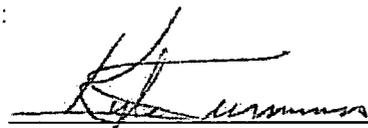
LINDRITH COMPRESSOR STATION (GW-209)  
Section 18, Township 24N, Range 5W  
Rio Arriba County, New Mexico

November 30, 2011  
SWG Project No. 0410006

Prepared for:

Enterprise Field Services, LLC  
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SUPPLEMENTAL ENVIRONMENTAL SITE INVESTIGATION &  
CORRECTIVE ACTION WORK PLAN (GW-209)

LINDRITH COMPRESSOR STATION  
Section 18, Township 24N, Range 5W  
Rio Arriba County, New Mexico  
SWG Project No. 0410006

1.0 INTRODUCTION

1.1 SITE LOCATION AND HISTORY

The Lindrith Compressor Station is located off Jicarilla Road J-36, approximately 7.2 miles west of State Highway 537, in Section 8, Township 24N, Range 5W Rio Arriba County, Jicarilla Apache Nation, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is a natural gas compressor station utilized to dehydrate and compress natural gas collected from production wells in the area for transportation via pipeline. The Site was constructed in the 1950s and currently includes three (3) compressor engines, a dehydration unit, a flare, one (1) bullet storage tank, a condensate storage tank battery, which includes eight (8) condensate storage tanks, two (2) below-grade tanks, inlet scrubbers, a water tower, and office/shop buildings.

On January 4, 2008, a natural gas condensate release (initially reported as 25 bbls) occurred within the containment berm at the former condensate storage tanks. The release penetrated the berm and flowed outside the south fence of the facility. The release was immediately reported the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division's (OCD) Aztec field office, and The OCD *Release Notification and Corrective Action* form (Form C-141) was submitted to the OCD. Initial response activities included the removal of some impacted soil, as well as soil boring sampling to evaluate the extent of impact (*Spill Cleanup Report Lindrith Compressor Station, Rio Arriba County, New Mexico*, September 2008). Supplemental excavation, delineation, and remediation activities were performed between November 2009 November 2010 (*Subsurface Investigation Report*, LTE, February 2011), resulting in the removal of approximately 4,182 cubic yards of affected soils, the advancement of twenty-nine (29) soil borings, and the installation and sampling of twelve (12) groundwater monitoring wells. The former condensate tanks and associated sump have been permanently removed from the facility. Based on the results of soil and groundwater sampling activities, constituent of concern (COC) concentrations were identified in soil above the New Mexico Energy, Minerals and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels* (RALs) and in groundwater above the New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards* (GQSS).

The Site location is depicted on Figure 1 of Appendix A which was reproduced from a portion of the United States Geological Survey (USGS) 7.5-minute series topographic map. A Site Vicinity Map of the subject Site and adjoining properties is included as Figure 2 of Appendix A.

## 1.2 CHRONOLOGY OF EVENTS

Significant events and related activities associated with the Site, including the results of Site investigation activities and corrective action completed to date, are provided in the following table:

|                    |  |
|--------------------|--|
| January 4, 2008    | The release was discovered and reported to the OCD. Condensate penetrated the secondary containment berm and flowed outside the south fence of the facility. Initial response activities included the removal of some soil, and the advancement of soil borings.   |
| September 2008     | <i>Spill Cleanup Report Lindrith Compressor Station, Rio Arriba County, New Mexico, September 2008.</i>  |
| November 2009      | LT Environmental, Inc. (LTE) oversaw the removal of an additional 3,200 cubic yards of hydrocarbon affected soil from the affected area. Apparent historically impacted soil was identified underlying the floor of the excavation, which extended to approximately 9 feet below ground surface (bgs).                   |
| December 2009      | Six (6) soil borings were advanced in the immediate vicinity of the former condensate storage tanks. Three (3) of the soil borings were converted into groundwater monitoring wells. Groundwater impact was confirmed through laboratory analysis.   |
| March 2010         | Proposed <i>Delineation Work Plan</i> , (LTE) presented to the Jicarilla Apache Nation Environmental Protection Office (JANEPO) detailing the proposed subsurface investigation activities.  |
| April 2010         | <i>Supplemental Work Plan</i> , (LTE) presented to JANEPO describing proposed sump removal and remediation activities.   |
| May 2010           | Removal of the subgrade sump, as well as an additional 982 cubic yards of hydrocarbon affected soils.  |
| June 2010          | <i>Combined ORC Injection and Delineation Work Plan and Remediation Work Plan (LTE)</i> submitted to JANEPO. This work plan proposed in-situ treatment at the source and additional soil and groundwater delineation activities.   |
| July-November 2010 | Bureau of Indian Affairs (BIA) approves the combined work plans. ORC is introduced into the excavation floor, a drain/injection system is installed, and the excavation is backfilled. The ORC is hydrated immediately after the drain/injection system installation, and again in September, October and November 2010. |
| October 2010       | LTE begins supplemental site delineation activities which included twenty (20) additional soil borings across the southern portion of the Site and adjacent property. Ten (10) of the soil borings are converted to groundwater monitoring wells, including the replacement of MW-1 with MW-1R.                          |
| February 2011      | <i>Subsurface Investigation Report</i> (LTE) describes the results of the subsurface investigation activities. The investigation identifies NAPL in  |

association with the initial groundwater bearing unit, as well as identifying historical apparent impact from undetermined sources. Additional investigation will be required to further evaluate the extent of the NAPL and dissolve-phase groundwater COCs, as well as the historic soil impacts.

- August 2011 Supplemental Site Investigation Work Plan submitted to JANEPO on August 1, 2011. Supplemental Site Investigation Work Plan approved by JANEPO on August 12, 2011.
- August/September 2011 Southwest Geoscience (SWG) performs supplemental site investigation activities which included the advancement and sampling of thirteen (13) additional soil borings across the southern portion of the Site and adjacent property. Each of the soil borings were converted into groundwater monitoring wells which were sampled during the September 2011 groundwater sampling event.

### 1.3 CONSTITUENTS OF CONCERN

The soil and groundwater samples collected from *historically* installed soil borings/monitoring wells were analyzed for TPH utilizing EPA method SW-846 #8015M and BTEX using EPA SW-846 method #8021B. Additionally, one soil sample (B-21 @ 23') was analyzed for Glycols, and two soil samples (B-27 @ 12' and B-27@ 33') were analyzed for volatile organic compounds (VOCs) utilizing EPA method SW-846 #8260.

- Based on the laboratory analytical results from previous investigations, TPH GRO/DRO concentrations were identified in soil samples collected from borings B-3 (25'), B-11(35'), B-12 (33.5'), B-13 (30'), B-15 (33'), B-16 (32'), B-18 (33'), B-20 (30'), B-24 (29'), B-27 (12'), B-28 (30'), and B-29 (27') above the OCD *Remediation Action Level* of 100 mg/Kg.
- Based on the laboratory analytical results from previous investigations, total BTEX concentrations were identified in soil samples collected from borings B-13 (30') and B-20 (30') above the OCD *Remediation Action Level* of 50 mg/Kg.
- The soil samples analyzed for Glycols and VOCs did not exhibit elevated concentrations of these constituents.
- Based on the laboratory analytical results from the June 2011 groundwater sampling event, benzene concentrations were identified in groundwater samples collected from monitoring wells MW-3, MW-4, MW-6, and MW-12 above the NMWQCC *Water Quality Standard* of 10 µg/L.
- Based on the laboratory analytical results from the June 2011 groundwater sampling event, toluene concentrations were identified in groundwater samples collected from monitoring wells MW-3 and MW-4 above the NMWQCC *Water Quality Standard* of 750 µg /L.
- Based on the laboratory analytical results from the June 2011 groundwater sampling event, total xylenes concentrations were identified in groundwater

samples collected from monitoring wells MW-3, MW-4, and MW-6 above the NMWQCC Water Quality Standard of 620 µg/L.

- During the June 22, 2011 groundwater gauging event, non-aqueous phase liquid (NAPL) was identified in monitoring wells MW-1R, MW-2, and MW-9.

Soil and groundwater analytical results for the Site borings and monitoring wells from previous investigations are included in Tables 1 and 2, respectively.

#### 1.4 SITE RANKING AND PROPOSED CLEANUP GOALS

The Site is under the jurisdiction of the Jicarilla Apache Nation Environmental Protection Office (JANEPO). In the absence of published JANEPO regulatory guidance, SWG referenced the New Mexico OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

In accordance with the OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, SWG utilized the general site characteristics to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

| Ranking Criteria   |                   |    | Ranking Score |
|--|-------------------|----|---------------|
| Depth to Groundwater   | <50 feet          | 20 | 20            |
|  | 50 to 99 feet     | 10 |               |
|  | >100 feet         | 0  |               |
| Wellhead Protection Area •<br><1,000 feet from a water source, or; <200 feet from private domestic water source. | Yes               | 20 | 20            |
|  | No                | 0  |               |
| Distance to Surface Water Body   | <200 feet         | 20 | 0             |
|  | 200 to 1,000 feet | 10 |               |
|  | >1,000 feet       | 0  |               |
| Total Ranking Score  |                   |    | 40            |

Based on SWG's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 40. This ranking is based on the following:

- The depth to the initial groundwater-bearing zone is <50 feet bgs at the Site.
- A livestock water well is located upgradient (Southeast) of the facility.

Based on a Total Ranking Score of 40, cleanup goals for soil located at the Site include: 10 mg/Kg for benzene, 50 mg/Kg for total BTEX and 100 mg/Kg for TPH GRO/DRO.

In addition, cleanup goals for groundwater located at the Site include the NMWQCC *Water Quality Standards* of: 0.010 mg/L for benzene, 0.75 mg/L for toluene, 0.75 mg/L for ethylbenzene, and 0.62 mg/L for xylenes.

## 1.5 OBJECTIVES OF SUPPLEMENTAL SITE INVESTIGATION & CORRECTIVE ACTION

The primary objective of the supplemental site investigation activities was to further evaluate the magnitude and extent of NAPL and dissolved phase COCs in groundwater.

The primary objective of the proposed corrective actions is to recover NAPL from the initial groundwater-bearing unit to the extent practical.

## 2.0 SITE CHARACTERIZATION

### 2.1 GEOLOGY & HYDROGEOLOGY

According to the New Mexico Bureau of Geology and Mineral Resource (Geologic Map of New Mexico 2003), the Site overlies the San Jose geologic formation. The Eocene age San Jose geologic formation contains a mixture of clastic sedimentary rocks varying from siltstone to conglomerate, dominated by rocks containing sand-sized particles. The lithology encountered at the Site during boring activities are composed of Quaternary alluvial deposits derived from erosion of the parent San Jose sandstones and siltstones. Based on the data collected during the completion of soil borings, the alluvia generally consist of brown silty/clayey sands and weathered sandstones from the ground surface to at least 20 feet bgs.

The lithology observed during the advancement of soil boring MW-37 at the Site included a pale to moderate yellowish brown silty sand from the surface to approximately 15.0 feet bgs. The silty sand stratum was underlain by a moderate to dark yellowish brown fine sand from 15.0 feet bgs to 24.0 feet bgs. A moderate brown to dark gray weathered shaley sandstone was encountered from 24.0 feet bgs to 31.0 feet bgs. At approximately 31.0 feet bgs the color of the weathered sandstone changed to a moderate to pale yellowish brown until a depth of 39.5 feet at which point the color changed to a moderately dark to olive gray. The boring was terminated at 40 feet bgs. The lithologies observed in the remaining soil borings at the Site were generally similar to soil boring MW-37, with occasional clay stringers, and varying degrees of weathered sandstones. Detailed lithologic descriptions are presented on the soil borings logs included in Appendix C. Figure 3 of Appendix A is a Site Map which depicts the location of the soil borings and monitoring wells in relation to pertinent Site features. Approximated geologic cross-sections are provided as Figures 4A and 4B in Appendix A.

The first water-bearing unit at the site is a shallow unconfined aquifer observed in alluvium and weathered sandstone bedrock. The major aquifer underlying the Site vicinity is listed as the Colorado Plateaus Aquifer, which is made up of four smaller aquifers, the Uinta-Animas, the Mesa Verde, the Dakota-Glen, and the Coconino-De Chelly. The Uinta-Animas is the shallowest of these aquifers, and is present in the San Juan Basin. The general composition of the aquifers is moderately to well-consolidated

sedimentary rocks of an age ranging from Permian to Tertiary. There are countless streams, rivers, and lakes that overlay the Colorado Plateaus Aquifers. The surface water bodies in this region provide a place for the aquifers to discharge. Some of the high altitude rivers and lakes may also provide recharge.

The initial groundwater-bearing unit (GWBU) at the Site was encountered at depths ranging from approximately 25 to 35 feet bgs during the investigation activities.

#### 2.1.1 GROUNDWATER FLOW

Monitoring well top-of-casing (TOC) elevations were surveyed and referenced to Section corner benchmarks. Groundwater measurements were collected utilizing an interface probe capable of detecting the presence of light non-aqueous phase liquids (NAPL). NAPL was observed in monitoring wells MW-1R, MW-2, MW-3, MW-9, MW-30, MW-32, MW-37, and MW-39 during recent gauging activities.

Based on the groundwater elevations measured during the September 2011 monitoring event, the groundwater at the Site slopes generally to the west-southwest at an average gradient of 0.012 ft/ft. The observed gradient on the western portion of the site is considerably steeper than that observed on the central and eastern portion.

Figure 5 of Appendix A is a Groundwater Gradient Map which depicts the direction of groundwater flow at the Site based on September 2011 gauging data. Table 3 (Appendix B) includes the gauging date, depth to groundwater and groundwater elevations for the gauging event(s) performed at the Site.

#### 2.1.2 GROUNDWATER CLASSIFICATION

In accordance with 19.15.30 NMAC *Remediation*, a groundwater-bearing unit is classified as an "Underground Source of Drinking Water" provided the groundwater-bearing unit is capable of producing water for human consumption or that contains ground water having a total dissolved solids (TDS) concentration of 10,000 mg/l or less and that is not an exempted aquifer". Based on conductivity readings collected during quarterly sampling events (averaging 2.7 mS/cm), groundwater at the site is likely to exhibit TDS results of less than 2,200 mg/l.

#### 2.2 LAND USE & CLASSIFICATION

Due to the absence of land use classification guidelines in the OCD *Guidelines for Remediation of Leaks, Spills and Releases* and/or NMAC 19.15.30 *Remediation*, land use was determined by comparison of existing land use of the Site to the definitions for residential and non-residential land use published in the available New Mexico Environment Department (NMED) regulatory guidance. Based on the available NMED guidance, non-residential land use encompasses all commercial and industrial land uses.

The Site, and adjacent and surrounding (beyond adjacent) properties are currently utilized as undeveloped rangeland occasioned by oil and gas gathering facilities. Based on SWG's review of the available information and visual inspection of the Site and vicinity, the Site appears to meet the non-residential land use classification.

### 3.0 SUPPLEMENTAL SITE INVESTIGATION

During August 2011, SWG performed a Supplemental Site Investigation to further define impacts to soil and groundwater at the Site. As a result of this investigation, thirteen (13) additional soil borings were advanced utilizing a hollow-stem auger (HAS) drilling rig. Each of these soil borings were subsequently completed as permanent monitoring wells. A Site-wide groundwater sampling event was performed during September 2011.

#### 3.1 SOIL BORINGS & MONITORING WELLS

As part of the approved scope of work, thirteen (13) soil borings (MW-30 through MW-42) were advanced across the southwestern portion of the site and outside the fenced area. These soil borings were located to further evaluate the former condensate release, the former pond area, the former compressor area, and the subgrade tank located in the western corner of the facility.

Figure 3 of Appendix A is a Site Map which depicts the location of the soil borings in relation to pertinent Site features.

Soil samples were collected continuously, utilizing five-foot core barrel samplers to the termination depth of each soil boring. An on-Site geoscientist documented the lithology encountered and constructed a continuous profile of the soil column from the surface to the boring terminus. Soil samples were observed to document soil lithology, color, moisture content, and visual and olfactory evidence of petroleum hydrocarbons. Field headspace analysis was conducted by placing the portion of the soil sample designated for field screening into a plastic Ziplock® bag. The plastic bag was sealed, and the sample allowed to volatilize. The air above the sample, the headspace, was then evaluated using a photoionization detector (PID) capable of detecting volatile organic compounds (VOCs). The PID was calibrated utilizing an isobutylene standard prior to use in the field.

Overall, PID readings ranged from zero (0) parts per million (ppm) to 676 ppm. Soil borings MW-30, MW-32, MW-36, MW-37, MW-38, MW-39, and MW-42 exhibited PID readings above 100 ppm near the apparent capillary fringe zone. Soil boring MW-32 also exhibited soil PID readings in excess of 100 ppm in shallower soils (16 feet bgs). Significant petroleum hydrocarbon vapors were not detected with the PID in soil samples collected from soil borings MW-31, MW-33, MW-34, MW-35, MW-40, and MW-41. Field screening results are presented on soil boring logs included in Appendix C.

Subsequent to advancement, each of the soil borings (MW-30 through MW-42) were converted to permanent groundwater monitoring wells. The monitoring wells were completed using the following methodology:

- Installation of 10 to 15 feet of 2-inch diameter, 0.010-inch machine slotted PVC well screen with a threaded bottom cap;

- Installation of 2-inch diameter, threaded flush joint PVC riser pipe to the ground surface;
- Addition of a pre-sieved 10/20 grade annular silica sand pack from the bottom of the soil boring to 2-feet above the top of the well screen;
- Addition of a hydrated bentonite seal above the sand pack filter zone;
- Addition of grout to the surface; and,
- Installation of a locking well cap and protective steel riser.

Monitoring well construction details are presented on the monitoring well logs provided in Appendix C.

### **3.2 INVESTIGATION SAMPLING PROGRAM**

#### **3.2.1 SOIL SAMPLING PROGRAM**

SWG's soil sampling program involved submitting one (1) or more soil sample(s) from each soil boring for laboratory analysis. Soil samples were collected from the zone exhibiting the highest PID reading, from a change in lithology, or from the bottom of the boring, based on the field professional's judgment.

Soil sample intervals are presented with the soil sample analytical results (Table 1) in Appendix B and are provided on the boring logs included in Appendix C.

#### **3.2.2 GROUNDWATER SAMPLING PROGRAM**

During the most recent groundwater sampling event (September 2011), each of the monitoring wells not exhibiting NAPL were micro-purged and sampled utilizing low-flow sampling techniques. Low-flow refers to the velocity with which groundwater enters the pump intake and that is imparted to the formation pore water in the immediate vicinity of the well screen. It does not necessarily refer to the flow rate of water discharged at the surface which can be affected by flow regulators or restrictions. Water level drawdown provides the best indication of the stress imparted by a given flow-rate for a given hydrological situation. The objective was to pump in a manner that minimizes stress (drawdown) to the system to the extent practical taking into account established site sampling objectives. Flow rates on the order of 0.1 to 0.5 L/min were maintained during the sampling activities using dedicated sampling equipment.

The utilization of low-flow minimal drawdown techniques enables the isolation of the screened interval groundwater from the overlying stagnant casing water. The pump intake is placed within the screened interval such that the groundwater recovered is drawn in directly from the formation with little mixing of casing water or disturbance to the sampling zone.

The monitoring wells were purged until produced groundwater was consistent in color, clarity, pH, dissolved oxygen (DO), oxidation/reduction potential (ORP), temperature, and conductivity prior to groundwater sample collection.

### 3.3 LABORATORY ANALYTICAL PROGRAM

The soil and groundwater samples collected during the Supplemental Site Investigation activities were analyzed for TPH GRO/DRO using EPA method SW-846 #8015B and BTEX using EPA method SW-846 method #8021B.

Laboratory results are summarized in the tables included in Appendix B. The executed chain-of-custody form and laboratory data sheets are provided in Appendix D.

### 3.4 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

All non-disposable sampling equipment was cleaned using an Alconox® wash and potable water rinse prior to the beginning of the project and before the collection of each sample.

Soil and groundwater samples were collected and placed in laboratory prepared glassware, sealed with custody tape and placed on ice in a cooler, which was secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Hall Environmental Analytical Laboratory (HEAL) in Albuquerque, New Mexico for standard turnaround.

HEAL performed the analyses of samples under an adequate and documented quality assurance program to meet the project and data quality objectives. The laboratory's quality assurance program is generally consistent the quality standards outlined in the National Environmental Laboratory Accreditation Program, as amended. In addition, the data generated by HEAL meet the intralaboratory performance standards for the selected analytical method and the performance standards are sufficient to meet the bias, precision, sensitivity, representativeness, comparability, and completeness, as specified in the project data quality objectives.

### 3.5 DATA EVALUATION

The Site is under the jurisdiction of the JANEPO. In the absence of published JANEPO regulatory guidance, SWG referenced the New Mexico OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

Based on SWG's review of Site characteristics (specifically: depth to groundwater, wellhead protection area and distance to surface water) an associated ranking score of 40 was determined for the Site. Consequently, the OCD's *Remediation Action Levels* for soils on sites having a total ranking score greater than 19 is 10 milligrams per kilogram (mg/Kg) benzene, 50 mg/Kg total BTEX and 100 mg/Kg TPH GRO/DRO. The

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New Mexico WQCC *Groundwater Quality Standards* are: 10 µg/L for benzene, 750 µg/L for toluene, 750 µg/L for ethylbenzene, and 620 µg/L for total xylenes.

### 3.5.1 SOIL

SWG compared the TPH GRO/DRO and BTEX concentrations or practical quantitation limits (PQLs) associated with the soil samples to the OCD *Remediation Action Levels*.

#### Total Petroleum Hydrocarbons

Soil samples collected from soil borings B-3, B-11, B-12, B-13, B-15, B-16, B-18, B-20, B-24, B-27, BH-28, and BH-29, completed during previous investigation activities, and soil samples collected from soil borings MW-30, MW-32, MW-37, and MW-39 exhibited TPH GRO/DRO concentrations ranging from <110 mg/Kg to 11,250 mg/Kg, which exceed the OCD's *Remediation Action Level* of 100 mg/Kg.

The soil samples collected from the remaining soil borings did not exhibit TPH GRO/DRO concentrations above the OCD's *Remediation Action Level* of 100 mg/Kg.

#### Benzene

The soil sample collected from soil boring MW-39 exhibited a benzene concentration of 11 mg/Kg, which exceeds the OCD's *Remediation Action Level* of 10 mg/Kg.

The soil samples collected from the remaining soil borings exhibited benzene concentrations ranging from below the laboratory PQLs to 9.7 mg/Kg, which is below the OCD's *Remediation Action Level* of 10 mg/Kg.

#### Total BTEX

The soil samples collected from previous soil borings B-13 and B-20, and from soil borings MW-30, MW-32, MW-37, and MW-39 exhibited total BTEX concentrations ranging from 52.1 mg/Kg to 294 mg/Kg, which exceed the OCD's *Remediation Action Level* of 50 mg/Kg.

The soil samples collected from the remaining soil borings did not exhibit total BTEX concentrations above the laboratory PQLs, which are below the OCD's *Remediation Action Levels* of 50 mg/Kg.

The results of soil sample analyses are summarized in Table 1 of Appendix B. Figure 6 (Appendix A) details the OCD *Remediation Action Level* Exceedance Zone in soil.

### 3.5.2 GROUNDWATER

SWG compared BTEX concentrations or PQLs associated with the groundwater samples collected from the monitoring wells during the most recent sampling event to the New Mexico WQCC *Groundwater Quality Standards*.

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The groundwater samples collected from monitoring wells MW-5, MW-7, MW-8, MW-10, MW-11, MW-31, MW-33, MW-34, MW-35, MW-36, and MW-40 did not exhibit benzene, toluene, ethylbenzene or xylenes concentrations above the respective WQCC *Groundwater Quality Standards*.

The groundwater samples collected from monitoring wells MW-4, MW-6, MW-12, MW-38, and MW-42 exhibited benzene concentrations ranging from 63 µg/L to 4,900 µg/L which exceeds the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater sample collected from monitoring well MW-4 exhibited a toluene concentration of 1,700 µg/L which exceeds the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from monitoring wells MW-4, MW-6, and MW-38 exhibited xylene concentrations ranging from 1,700 µg/L to 1,800 µg/L, which exceed the WQCC *Groundwater Quality Standard* of 620 µg/L.

Groundwater samples were not collected from monitoring wells MW-1R, MW-2, MW-3, MW-9, MW-30, MW-32, MW-37 or MW-39, due to the presence of NAPL. Two previously unidentified NAPL plumes were identified during the investigation. One of these plumes is located near the subgrade tank in the west corner of the Site, and the other is located beneath the former ponds at the southeast corner of the Site.

The results of groundwater sample analyses are summarized in Table 2 of Appendix B. Figure 7 (Appendix A) details the NMWQCC *Groundwater Quality Standard* Exceedance Zone in groundwater.

#### 4.0 CORRECTIVE ACTION

Corrective actions completed at the Site to date include the excavation and removal of approximately 4,182 cubic yards of hydrocarbon impacted soil. Additionally, ORC<sup>®</sup> was introduced into the floor of the excavation utilizing four (4) trenches in an attempt to treat impacted soils below 20 feet bgs. Subsequently, a perforated drain system with riser pipes was installed prior to backfill activities to provide a mechanism for hydration of the ORC<sup>®</sup>. Pursuant to the initial hydration of the ORC<sup>®</sup> at the time of installation, the drain system was utilized on three separate occasions between September and November of 2010 to hydrate the former excavation floor.

ORC<sup>®</sup> is a formulation of phosphate-intercalated magnesium peroxide that, when hydrated, produces a controlled release of oxygen for periods of up to 12 months per application. ORC<sup>®</sup> injection is a passive remediation alternative designed to supply controlled-release molecular oxygen to the subsurface environment to enhance or accelerate the rate of naturally occurring aerobic contaminant biodegradation in groundwater and saturated soils.

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#### 4.1 HIGH-VACUUM REMEDIATION

Enterprise proposes to implement hi-vacuum remediation (HVR) technology, also referred to as mobile dual-phase extraction (MDPE), at the Site. The mobile HVR system (Liquid Ring Pump and Internal Combustion Engine (ICE) system), which utilizes patent pending technical innovations, will be operated at the Site for approximately 90 days. The HVR system has been designed to recover NAPL and associated vapors, which have been identified in association with the initial groundwater-bearing unit in the vicinity of the former condensate storage tanks. The proposed HVR system will be tailored to the specific geology and hydrogeology of the site, and field modifications will be made to optimize system performance.

The system will consist of a single trailer mounted ICE unit incorporating proprietary fluid extraction/knockout/oil water separation technology with fluid storage tanks, vapor abatement, and data logging capabilities. A diagram of the proposed ICE unit is provided in Appendix E. The emissions leave the engine through a catalytic converter prior to release to the atmosphere. Natural gas or propane is utilized at "start-up" and as "make-up" or "assist" fuel if vapor concentrations drop below the ICE requirements. Water and NAPL recovery quantities will be quantified manually, and vapor phase utilization will be calculated in pounds and/or gallons.

Recovered groundwater and NAPL will be temporarily stored on site during the MDPE event for subsequent disposal as oil & gas waste or re-introduction into the product gathering system, in accordance with applicable state and federal regulations.

Prior to initiation and periodically during operation, each of the monitoring wells at the Site will be gauged to determine NAPL and water level measurements.

##### AIR PERMITTING AND SAMPLING

An air permit will be secured for the HVR system operating at the Site. Permit compliance will require periodic air sampling, beginning at start up, to measure pre-destruction volatile levels and to monitor post-abatement air emissions. Air samples will be collected utilizing tedlar bags, or other approved air sampling methods. Samples will be analyzed for BTEX concentrations at an approved laboratory.

##### 4.1.1 "PILOT STUDY" PHASE

During the "pilot study" phase of the HVR activities, vapors, NAPL, and a small amount of water will be recovered from monitoring wells located within the NAPL plume from the former condensate tanks release. Withdrawal from these monitoring wells will be alternated, based on performance, to maximize hydrocarbon recovery. The HVR activities are currently planned to occur over a three month timeframe, but constant evaluation of the results may alter that timeframe.

##### 4.1.2 NAPL REDUCTION PHASE

In the event the proposed HVR activities at the source significantly reduce the volume of NAPL in the vicinity of the source, further HVR may be planned for the former

condensate storage tanks release area and additional HVR activities may be scheduled for other areas at the site.

## 5.0 CORRECTIVE ACTION EFFECTIVENESS

The HVR activities are scheduled to occur over a three month time frame. To evaluate the effectiveness of the proposed corrective action, SWG will assess the volume of recovered hydrocarbons and NAPL thickness levels on the shallow aquifer, as well as the calculated mass of hydrocarbons removed after one month of operation. This information will be compared against the cost of operating the HVR system, to determine if activities should continue for the planned duration of the pilot test or be terminated prematurely due to inefficiency.

If the HVR system is operated beyond the first month, the mass recovery of hydrocarbon and NAPL measurements will continue to be tracked, and a feasibility study will be performed once the pilot test is complete. Subsequent quarterly monitoring results will also be evaluated to determine if the HVR produces a positive result in addressing dissolve-phase COC concentrations.

### 5.1 GROUNDWATER SAMPLING PROGRAM

Subsequent to the HVR pilot study, SWG's groundwater sampling program will be slightly modified to include natural attenuation parameters and will consist of the following:

1. Collection of one (1) groundwater sample from each monitoring well utilizing low-flow minimal drawdown sampling techniques during each of four (4) quarterly groundwater sampling events.

Prior to sample collection, all onsite monitoring wells not exhibiting NAPL will be micro-purged and sampled utilizing low-flow sampling techniques. Low-flow refers to the velocity with which groundwater enters the pump intake and that is imparted to the formation pore water in the immediate vicinity of the well screen. It does not necessarily refer to the flow rate of water discharged at the surface which can be affected by flow regulators or restrictions. Water level drawdown provides the best indication of the stress imparted by a given flow-rate for a given hydrological situation. The objective is to pump in a manner that minimizes stress (drawdown) to the system to the extent practical taking into account established site sampling objectives. Flow rates on the order of 0.1 to 0.5 L/min will be maintained during the sampling activities using dedicated sampling equipment.

The utilization of low-flow minimal drawdown techniques enables the isolation of the screened interval groundwater from the overlying stagnant casing water. The pump intake is placed within the screened interval such that the groundwater recovered is drawn in directly from the formation with little mixing of casing water or disturbance to the sampling zone.

The monitoring wells will be purged until produced groundwater is consistent in color, clarity, pH, dissolved oxygen (DO), oxidation/reduction potential (ORP), temperature, and conductivity prior to groundwater sample collection.

The groundwater samples will be collected in laboratory prepared glassware and placed on ice in a cooler, which will be secured with a custody seal. The samples will be transported to a selected analytical laboratory along with a completed chain-of-custody form.

The groundwater samples collected from the monitoring wells will be analyzed for TPH GRO/DRO utilizing EPA method SW-846 #8015M and BTEX utilizing EPA Method SW-846 #8021B. In addition, during two (2) of the groundwater sampling events, groundwater samples will be collected for select *Supplemental Geochemical Indicators of Groundwater COC Degradation* including alkalinity, nitrate, ferrous iron, total iron, sulfate, methane, manganese and carbon dioxide.

A summary of the analysis, sample type, sample frequency and EPA-approved methods are presented below:

| Analysis                         | Sample Type | EPA Method #  |
|----------------------------------|-------------|---------------|
| TPH GRO/DRO                      | Groundwater | SW-846#015M   |
| BTEX                             | Groundwater | SW-846#8021B  |
| Alkalinity                       | Groundwater | SM2320B       |
| Nitrate                          | Groundwater | SW-846#9056   |
| Ferrous Iron (Fe <sup>2+</sup> ) | Groundwater | SW-846#6010B  |
| Total Iron                       | Groundwater | SM 3500-Fe D. |
| Sulfate                          | Groundwater | SW-846#9056   |
| Methane                          | Groundwater | RSK 175       |
| Manganese                        | Groundwater | SW-846#6010B  |
| Carbon Dioxide                   | Groundwater | SM 4500-CO2   |

## 6.0 CORRECTIVE ACTION REPORT

Subsequent to the completion of the source or "pilot study" phase of HVR corrective action activities, a report will be prepared that will include documentation of initial HVR and groundwater monitoring activities, a site plan detailing pertinent site features, laboratory analytical results, an evaluation of corrective action results and recommendations concerning further corrective measures for the Site.

## 7.0 SCHEDULE

The completion of the proposed pilot study phase of the HVR activities will require an estimated three (3) months after initiation; however, time estimations regarding the completion of corrective actions depend upon several factors, many of which cannot be pre-determined.

Provided the proposed "pilot study" phase of the HVR activities effectively reduces NAPL volumes groundwater in the vicinity of the source, a larger scale and longer term HVR event may be recommended.

## 8.0 FINDINGS AND RECOMMENDATIONS

The primary objective of the supplemental site investigation activities was to further evaluate the magnitude and extent of NAPL and dissolved phase COCs in groundwater.

The primary objective of the proposed corrective actions is to recover NAPL from the initial groundwater-bearing unit to the extent practical utilizing high-vacuum recovery.

- SWG installed thirteen (13) monitoring wells at the Lindrith Compressor Station utilizing a HSA drilling rig.
  - Soil samples collected from soil borings MW-30, MW-32, MW-37, and MW-39 exhibited TPH GRO/DRO concentrations ranging from <110 mg/Kg to 11,250 mg/Kg, which exceed the OCD's *Remediation Action Level* of 100 mg/Kg.
  - The soil sample collected from soil boring MW-39 exhibited a benzene concentration of 11 mg/Kg, which exceeds the OCD's *Remediation Action Level* of 10 mg/Kg.
  - The soil samples collected from soil borings MW-30, MW-32, MW-37, and MW-39 exhibited total BTEX concentrations ranging from 52.1 mg/Kg to 294 mg/Kg, which exceed the OCD's *Remediation Action Level* of 50 mg/Kg.
  - Groundwater samples were not collected from monitoring wells MW-1R, MW-2, MW-3, MW-9, MW-30, MW-32, MW-37 or MW-39, due to the presence of NAPL. Two additional NAPL plumes were identified during the investigation.
  - The groundwater samples collected from monitoring wells MW-4, MW-6, MW-12, MW-38, and MW-42 exhibited benzene concentrations ranging from 63 µg/L to 4,900 µg/L which exceeds the WQCC *Groundwater Quality Standard* of 10 µg/L.
  - The groundwater sample collected from monitoring well MW-4 exhibited a toluene concentration of 1,700 µg/L which exceeds the WQCC *Groundwater Quality Standard* of 750 µg/L.
-

- The groundwater samples collected from monitoring wells MW-4, MW-6, and MW-38 exhibited xylene concentrations ranging from 1,700 µg/L to 1,800 µg/L, which exceed the WQCC *Groundwater Quality Standard* of 620 µg/L.
- Based on the results of current and previous investigations at the Site, the following source areas are suspected as contributors to the identified soil and/or groundwater impact at the facility:
  - 1.) Former condensate storage tanks and sump in south central facility and possibly the former hydrocarbon tank located southwest of the water tower.
  - 2.) Former pond locations (possible burn pit location) in the southeastern portion of the facility in the vicinity of monitoring wells MW-30 and MW-32.
  - 3.) Subgrade tank in the northwest portion of the facility.
- Dissolve-phase COC groundwater impact in the vicinity of monitoring well MW-12 does not appear to be directly associated to an identified source, and may be the result of an unknown source that has been removed, or possibly the result of a much earlier release from the former condensate tank area.
- Enterprise proposes to implement HVR technology at the Site. The mobile HVR system will be operated at the Site for approximately 90 days. The HVR system has been designed to recover NAPL and associated vapors, which have been identified in association with the initial groundwater-bearing unit in the vicinity of the former condensate storage tanks. The proposed HVR system will be tailored to the specific geology and hydrogeology of the site, and field modifications will be made to optimize system performance.

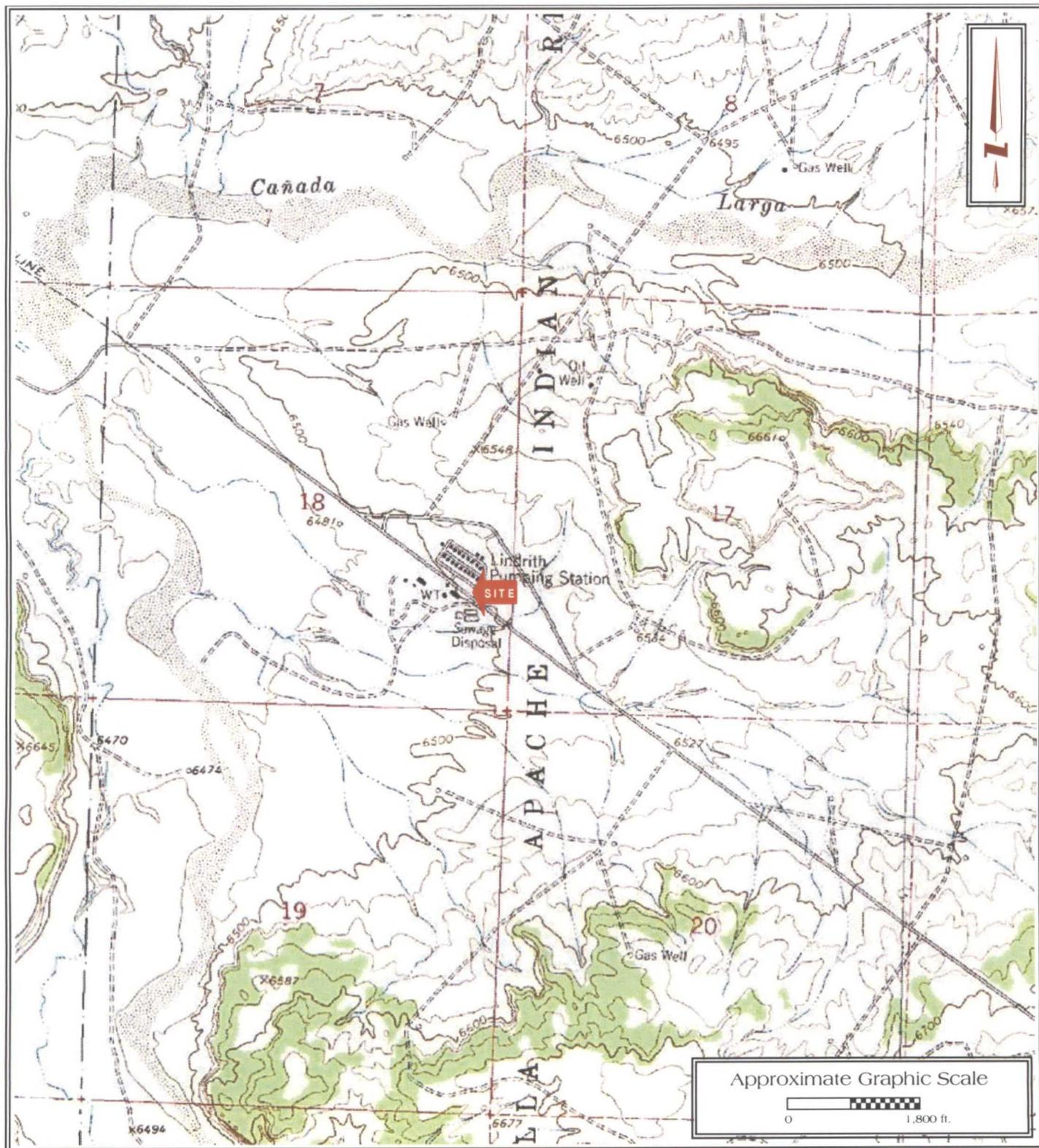
Based on the results of supplemental investigation and corrective action activities, SWG has the following recommendations:

- Report the results of the investigative and corrective actions to the JANEPO;
- Evaluate future quarterly sampling results and perform additional delineation activities as necessary to further evaluate the extent of the dissolve-phase COCs in groundwater; and,
- Perform "Pilot Study" HVR to evaluate NAPL removal feasibility in the vicinity of the former condensate storage tank release.

APPENDIX A

Figures

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Lindrith Compressor Station  
 SE 1/4, S18 T24N R5W  
 N36° 18' 32.41"; W107° 23' 48.09"  
 Rio Arriba County, New Mexico

SWG Project No. 0410006

**Southwest**  
 GEOSCIENCE

**FIGURE 1**  
 Topographic Map  
 East Fork Kutz Canyon, NM Quad  
 Contour Interval - 10 Feet



Lindrith Compressor Station  
SE 1/4, S18 T24N R5W  
N36° 18' 32.41"; W107° 23' 48.09"  
Rio Arriba County, New Mexico

SWG Project No. 0410006

**Southwest**  
GEOSCIENCE

**FIGURE 2**  
Site Vicinity Map

2009 Aerial Photograph  
Source: Digital Globe

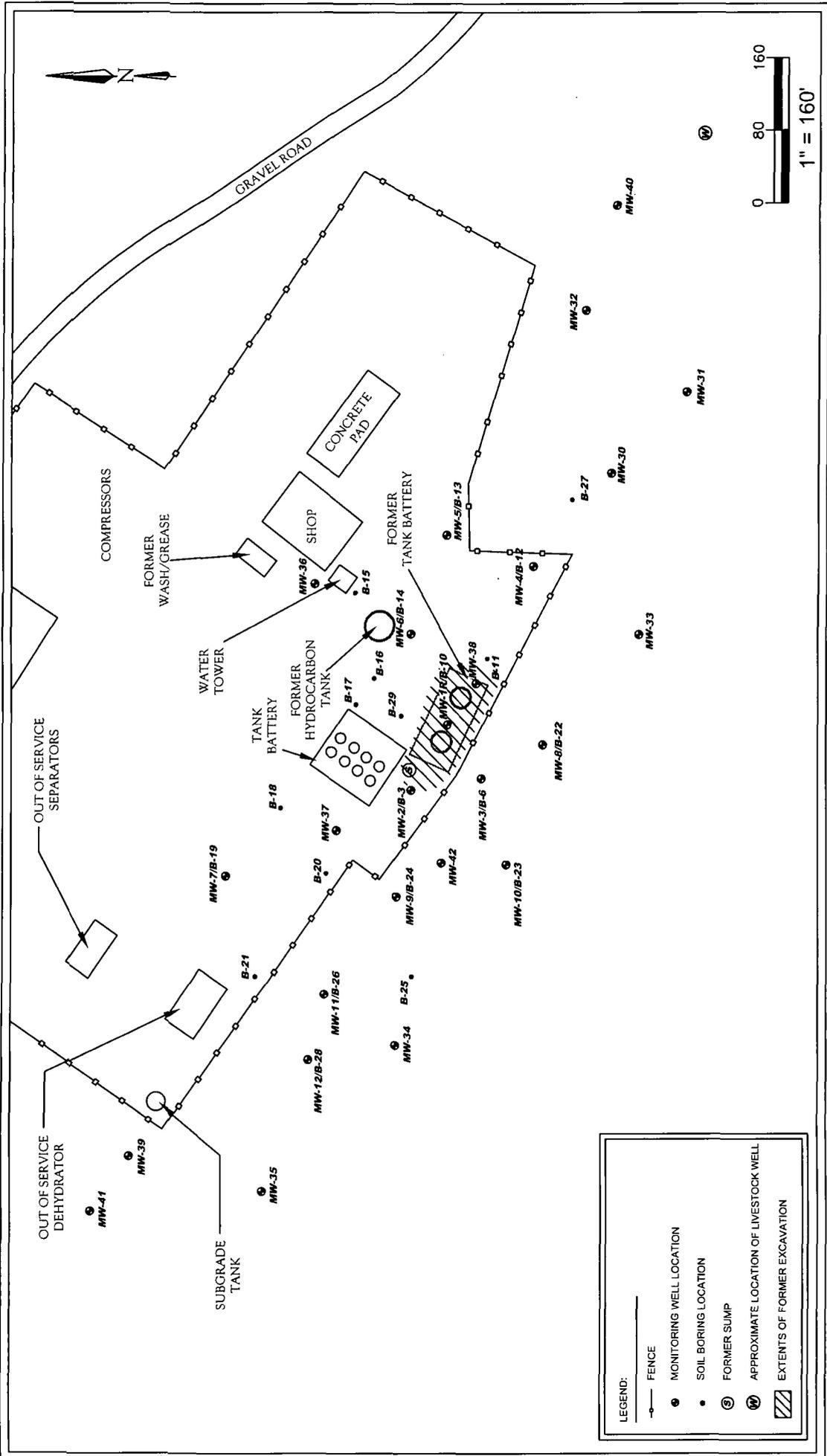


FIGURE 3  
SITE MAP



Lindrith Compressor Station  
 SE 1/4 S18 T24N R5W  
 N36° 18' 32.41"; W107° 23' 48.09"  
 Rio Arriba County, New Mexico

SWG Project No. 0410006

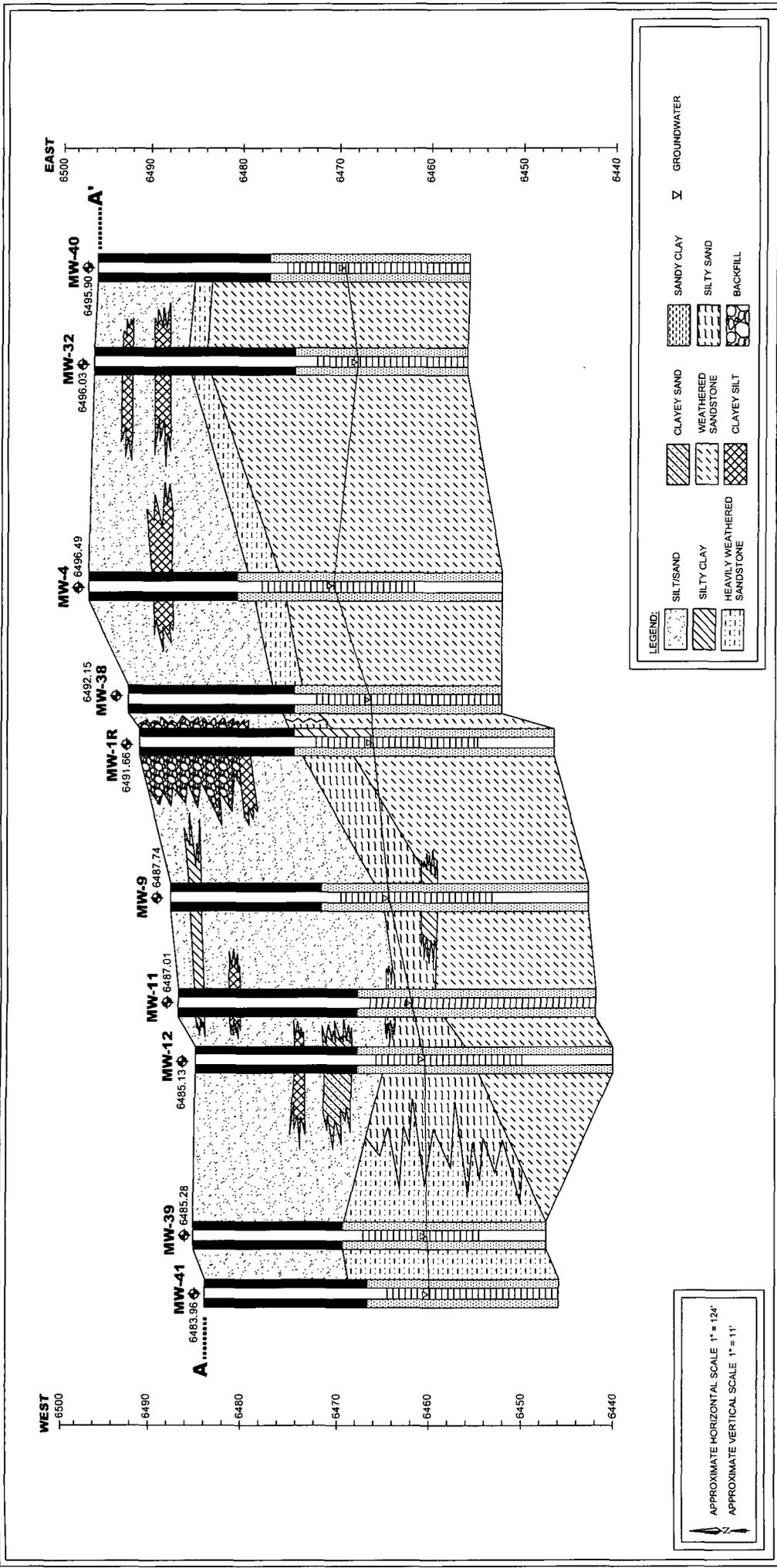
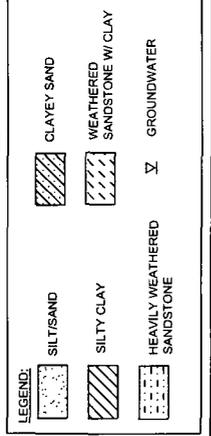
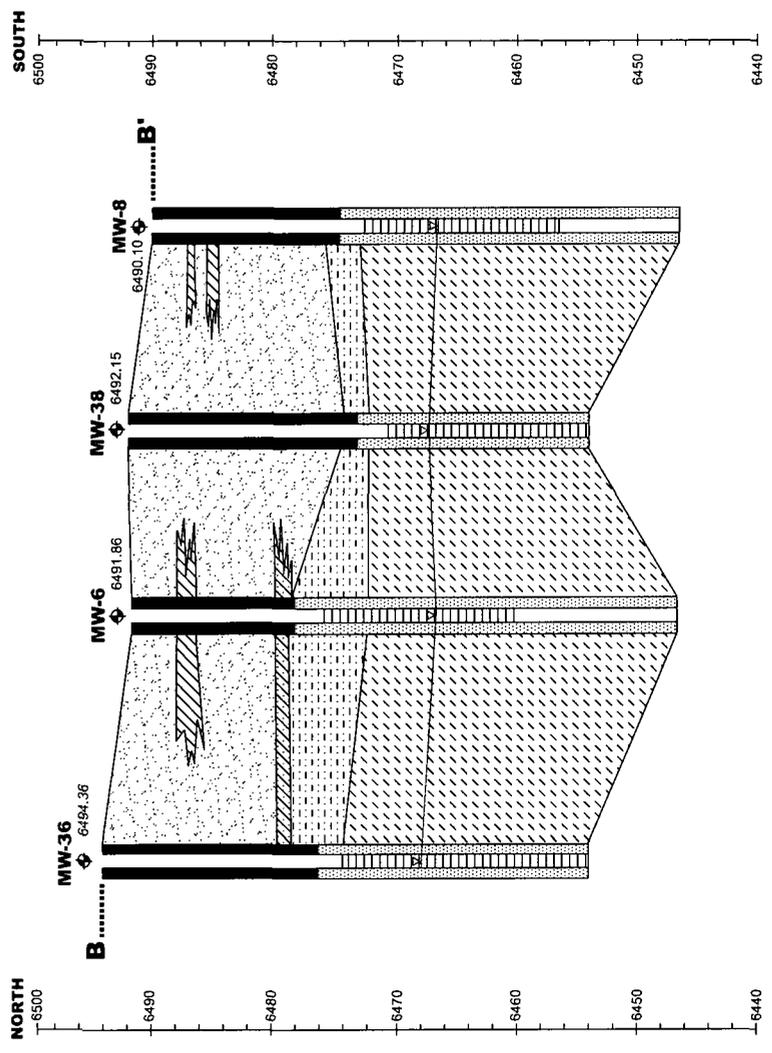


FIGURE 4A  
 CROSS SECTION A - A'

**Southwest**  
 GEOSCIENCE

Lindrieth Compressor Station  
 SE 1/4 S18 T24N R5W  
 N36° 18' 32.41" W107° 23' 48.09"  
 Rio Arriba County, New Mexico  
 SWG Project No. 0410006



APPROXIMATE HORIZONTAL SCALE 1" = 62'  
APPROXIMATE VERTICAL SCALE 1" = 11'

Lindrieth Compressor Station  
SE 1/4 S18 T24N R5W  
N36° 18' 32.41"; W107° 23' 48.09"  
Rio Arriba County, New Mexico

SWG Project No. 0410006

**Southwest**  
G E O S C I E N C E

**FIGURE 4B**  
CROSS SECTION B - B'

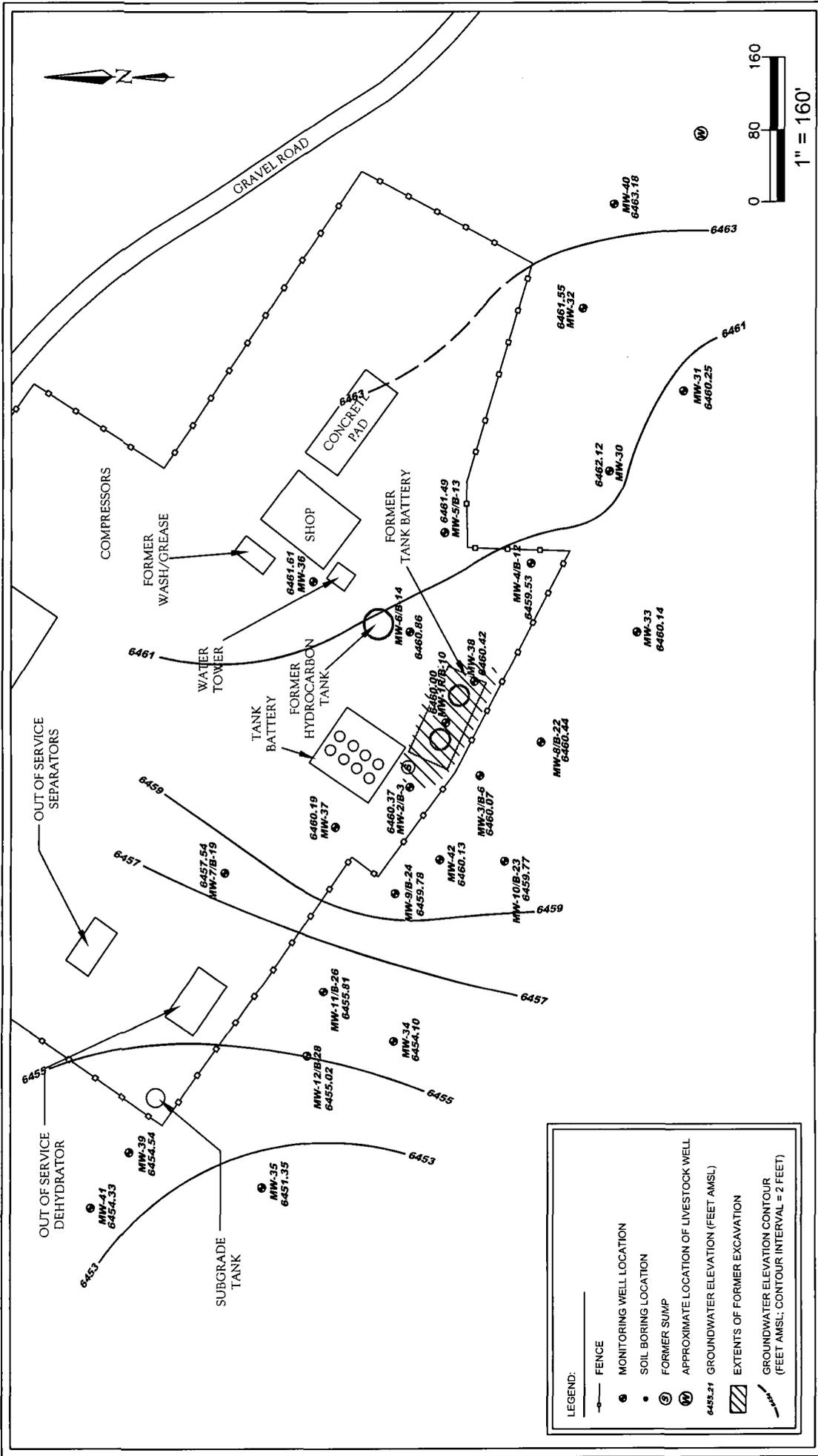


FIGURE 5  
GROUNDWATER  
GRADIENT  
MAP  
SEPTEMBER 21, 2011



Lindrieth Compressor Station  
SE 1/4 S18 T24N R5W  
N36° 18' 32.41"; W107° 23' 48.09"  
Rio Arriba County, New Mexico

SWG Project No. 0410006





APPENDIX B

Tables

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TABLE 1  
Lindrieth Compressor Station - Soil Borings  
SOIL ANALYTICAL SUMMARY

| Sample I.D.  | Date     | Sample Depth (feet) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH MFO (mg/kg) | TPH Total (mg/kg) |  |
|--|----------|---------------------|-----------------|-----------------|----------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-------------------|--|
| New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level |          |                     |                 |                 |                      |                 |                    |                 |                 |                 |                   |  |
|  |          |                     | 10              | NE              | NE                   | NE              | 50                 | 100             |                 |                 |                   |  |
| Soil Boring Advanced by Lodestar/LTE   |          |                     |                 |                 |                      |                 |                    |                 |                 |                 |                   |  |
| B-1*   | 12.15.09 | 15.0                | 0.057           | 0.19            | <0.5                 | 0.22            | <0.967             | 28              | <10             | NA              | <38               |  |
| B-1*   | 12.15.09 | 25.0                | 0.25            | 0.84            | 0.1                  | 0.81            | 2                  | 82              | <10             | NA              | <92               |  |
| B-2*   | 12.15.09 | 20.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | NA              | NA                |  |
| B-3  | 12.17.09 | 25.0                | 0.27            | 1.2             | 0.24                 | 2.2             | 3.91               | 100             | <10             | NA              | <110              |  |
| B-3  | 12.17.09 | 30.0                | <0.05           | 0.36            | 0.11                 | 1.0             | <1.52              | 19              | <10             | NA              | <29               |  |
| B-3  | 12.17.09 | 35.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | NA              | NA                |  |
| B-4*   | 12.17.09 | 20.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | NA              | NA                |  |
| B-5*   | 12.17.09 | 20.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | NA              | NA                |  |
| B-6  | 12.17.09 | 25-30               | <0.05           | 0.06            | <0.05                | 0.11            | <0.27              | 8               | <10             | NA              | <18               |  |
| B-6  | 12.17.09 | 35.0                | <0.05           | 0.15            | <0.05                | 0.23            | <0.48              | 12              | <10             | NA              | <22               |  |
| B-6  | 12.17.09 | 40.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | NA              | NA                |  |
| B-10   | 10.18.10 | 22.0                | <0.25           | 1.0             | 0.3                  | 3.4             | <4.95              | 64              | <10             | <50             | <124              |  |
| B-10   | 10.18.10 | 45.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-11   | 10.19.10 | 35.0                | 2.6             | 15              | 3.3                  | 28              | 48.9               | 1,000           | 18              | <50             | <1068             |  |
| B-11   | 10.19.10 | 45.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-12   | 10.20.10 | 33.5                | 0.31            | 1.8             | 0.75                 | 5.4             | 8.26               | 130             | 15              | <50             | <195              |  |
| B-12   | 10.20.10 | 48.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-13   | 10.20.10 | 30.0                | <2.5            | 17              | 9.0                  | 57              | <85.5              | 1,000           | 400             | 810             | 2210              |  |
| B-13   | 10.20.10 | 45.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-14   | 10.21.10 | 28.0                | <0.05           | 0.067           | <0.05                | 0.37            | <0.537             | 13              | 30              | 74              | 117               |  |
| B-14   | 10.21.10 | 40.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-15   | 10.22.10 | 33.0                | <0.50           | <0.50           | <0.50                | <1.0            | ND                 | <50             | 170             | 210             | <430              |  |
| B-15   | 10.22.10 | 35.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-16   | 10.22.10 | 32.0                | <0.50           | 2.9             | 1.6                  | 13              | <18                | 260             | 130             | 150             | 540               |  |
| B-16   | 10.22.10 | 45.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-17   | 10.22.10 | 33.0                | <0.10           | <0.10           | 0.12                 | 1.2             | <1.52              | 31              | 51              | 78              | 160               |  |
| B-17   | 10.22.10 | 45.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-18   | 10.25.10 | 33.0                | <0.20           | 0.79            | 0.98                 | 7.7             | <9.67              | 230             | 110             | 120             | 460               |  |
| B-18   | 10.25.10 | 40.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-19   | 10.25.10 | 33.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | 14              | 18              | <50             | <82               |  |
| B-19   | 10.25.10 | 45.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-20   | 10.25.10 | 30.0                | <1.0            | 7.9             | 6.5                  | 50              | <65.4              | 1,900           | 450             | 420             | 2770              |  |
| B-20   | 10.26.10 | 40.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-21   | 10.26.10 | 23.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-21   | 10.27.10 | 40.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-22   | 10.27.10 | 24.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-22   | 10.28.10 | 42.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-23   | 10.29.10 | 33.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-23   | 10.29.10 | 40.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-24   | 10.29.10 | 29.0                | <0.25           | 1.6             | 0.73                 | 6.9             | <9.48              | 230             | 63              | 210             | 503               |  |
| B-24   | 10.29.10 | 45.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| BH25   | 11.01.10 | 39.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-26   | 11.02.10 | 29.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |
| B-26   | 11.02.10 | 45.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |  |

TABLE 1  
Lindrieth Compressor Station - Soil Borings  
SOIL ANALYTICAL SUMMARY

| Sample I.D.  | Date     | Sample Depth (feet) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH MFO (mg/kg) | TPH Total (mg/kg) |
|--|----------|---------------------|-----------------|-----------------|----------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-------------------|
| New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level |          |                     |                 |                 |                      |                 |                    |                 |                 |                 |                   |
|  |          |                     | 10              | NE              | NE                   | NE              | 50                 |                 | 100             |                 |                   |
| B-27   | 11.02.10 | 12.0                | <0.05           | <0.05           | <0.05                | 0.11            | <0.26              | <25             | 100             | 290             | <415              |
| B-27   | 11.02.10 | 33.0                | <0.05           | <0.05           | <0.05                | 0.26            | <0.41              | 30              | 33              | 98              | 161               |
| BH-27  | 11.03.10 | 45.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |
| BH-28  | 11.03.10 | 30.0                | <0.05           | <0.05           | 0.22                 | 2.4             | <2.72              | 110             | 360             | 680             | 1150              |
| BH-28  | 11.03.10 | 45.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | <10             | <50             | ND                |
| BH-29  | 11.04.10 | 27.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | <5.0            | 100             | 130             | <235              |
| BH-29  | 11.04.10 | 40.0                | <0.05           | <0.05           | <0.05                | <0.10           | ND                 | 6.6             | <10             | <50             | <66.6             |
| Soil Boring Advanced by SWG  |          |                     |                 |                 |                      |                 |                    |                 |                 |                 |                   |
| MW-30  | 8.15.11  | 12.0                | <0.47           | <0.47           | <0.47                | <0.94           | ND                 | <47             | 2,300           | NA              | <2,347            |
| MW-30  | 8.15.11  | 35.0                | <0.48           | 7.0             | 18                   | 100             | 125                | 8,500           | 360             | NA              | 8,860             |
| MW-31  | 8.15.11  | 16.0                | <0.24           | <0.24           | <0.24                | <0.47           | ND                 | <24             | <9.9            | NA              | ND                |
| MW-31  | 8.15.11  | 37.0                | <0.048          | <0.048          | <0.048               | <0.097          | ND                 | <4.8            | <9.6            | NA              | ND                |
| MW-32  | 8.16.11  | 17.0                | <0.50           | 1.2             | 2.4                  | 16              | 19.6               | 640             | 19              | NA              | 659               |
| MW-32  | 8.16.11  | 35.0                | 9.7             | 34              | 33                   | 190             | 266.7              | 11,000          | 250             | NA              | 11,250            |
| MW-33  | 8.16.11  | 35.0                | <0.048          | <0.048          | <0.048               | <0.097          | ND                 | <4.8            | <9.8            | NA              | ND                |
| MW-34  | 8.17.11  | 30.0                | <0.048          | <0.048          | <0.048               | <0.096          | ND                 | <4.8            | <10             | NA              | ND                |
| MW-35  | 8.17.11  | 30.0                | <0.049          | <0.049          | <0.049               | <0.098          | ND                 | <4.9            | <9.9            | NA              | ND                |
| MW-35  | 8.17.11  | 36.0                | <0.048          | <0.048          | <0.048               | <0.096          | ND                 | <4.8            | <10             | NA              | ND                |
| MW-36  | 8.18.11  | 30.0                | <0.049          | <0.049          | <0.049               | <0.098          | ND                 | 10              | <10             | NA              | <20               |
| MW-36  | 8.18.11  | 35.0                | <0.047          | <0.047          | <0.047               | <0.095          | ND                 | <4.7            | <10             | NA              | ND                |
| MW-37  | 8.19.11  | 26.0                | <0.049          | <0.049          | <0.049               | <0.097          | ND                 | <4.9            | 27              | NA              | <31.9             |
| MW-37  | 8.19.11  | 30.0                | 1.2             | 5.7             | 5.2                  | 40              | 52.1               | 1,400           | 310             | NA              | 1,710             |
| MW-38  | 8.19.11  | 34.0                | <0.049          | <0.049          | <0.049               | <0.098          | ND                 | <4.9            | <10             | NA              | ND                |
| MW-38  | 8.19.11  | 28.0                | <0.048          | <0.048          | <0.048               | <0.096          | ND                 | <4.8            | <9.8            | NA              | ND                |
| MW-39  | 8.22.11  | 31.0                | 11              | 18              | 35                   | 230             | 294                | 7,600           | 990             | NA              | 8,590             |
| MW-40  | 8.23.11  | 32.0                | <0.048          | <0.048          | <0.048               | <0.096          | ND                 | <4.8            | <9.8            | NA              | ND                |
| MW-40  | 8.23.11  | 35.0                | <0.047          | <0.047          | <0.047               | <0.093          | ND                 | <4.7            | <10             | NA              | ND                |
| MW-41  | 8.23.11  | 30.0                | <0.048          | <0.048          | <0.048               | <0.095          | ND                 | <4.8            | <9.9            | NA              | ND                |
| MW-42  | 8.23.11  | 27.0                | <0.048          | <0.048          | 0.058                | 0.85            | 0.908              | 15              | 12              | NA              | 27                |

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level

NA = Not Analyzed

NE = Not Established

NAPL = Non-aqueous phase liquid

\* = boring location from former condensate tank leak. Not shown on map due to scale.

TABLE 2  
Lindrieth Compressor Station  
GROUNDWATER ANALYTICAL SUMMARY

| Sample I.D.   | Date     | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Xylenes<br>(µg/L) | TPH<br>GRO<br>(mg/L) | TPH<br>DRO<br>(mg/L) | TPH<br>MRO<br>(mg/L) | pH<br>(Standard Units) | Nitrate<br>(mg/L) | Iron<br>(mg/L) |
|---|----------|-------------------|-------------------|------------------------|-------------------|----------------------|----------------------|----------------------|------------------------|-------------------|----------------|
| New Mexico Water Quality Control Commission Groundwater Quality Standards |          |                   |                   |                        |                   |                      |                      |                      |                        |                   |                |
| MW-1*   | 12.30.09 | 1,900             | 2,600             | 120                    | 870               | NA                   | NA                   | NA                   | 6-9                    | 10                | 1.0*           |
| MW-1R   | 11.16.10 | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-1R   | 6.24.11  | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-1R   | 9.21.11  | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-2  | 12.30.09 | 3,000             | 3,200             | 270                    | 1,900             | NA                   | NA                   | NA                   | NA                     | NA                | NA             |
| MW-2  | 11.16.10 | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-2  | 6.24.11  | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-2  | 9.21.11  | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-3  | 12.30.09 | 130               | 370               | 76                     | 530               | NA                   | NA                   | NA                   | NA                     | NA                | NA             |
| MW-3  | 11.16.10 | 5,500             | 62                | 350                    | 1,000             | 16                   | <1.0                 | <5.0                 | 7.16                   | <1.0              | 210            |
| MW-3  | 6.24.11  | 5,700             | 3,300             | 340                    | 2,300             | 31                   | 1.7                  | NA                   | NA                     | NA                | NA             |
| MW-3  | 9.21.11  | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-4  | 11.16.10 | 2,600             | 1,600             | 280                    | 1,700             | 0.35                 | 3.1                  | <5.0                 | 6.93                   | <1.0              | 470            |
| MW-4  | 6.24.11  | 3,900             | 1,600             | 220                    | 1,400             | 26                   | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-4  | 9.21.11  | 4,000             | 1,700             | 280                    | 1,700             | 32                   | 1.1                  | NA                   | NA                     | NA                | NA             |
| MW-5  | 11.15.10 | 4.4               | <1.0              | 6.3                    | 22                | 2.2                  | 1.4                  | <5.0                 | 6.82                   | <1.0              | 47             |
| MW-5  | 6.24.11  | 1.2               | <1.0              | 31                     | 19                | 0.52                 | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-5  | 9.21.11  | 1.9               | <1.0              | 3.8                    | 9.7               | 0.62                 | 1.1                  | NA                   | NA                     | NA                | NA             |
| MW-6  | 11.16.10 | 2,400             | 65                | 230                    | 1,200             | 0.42                 | 1.4                  | <5.0                 | 6.57                   | <1.0              | 140            |
| MW-6  | 6.24.11  | 4,500             | 68                | 230                    | 1,200             | 25                   | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-6  | 9.21.11  | 4,900             | 67                | 330                    | 1,800             | 32                   | 1.4                  | NA                   | NA                     | NA                | NA             |
| MW-7  | 11.16.10 | 8.9               | 2.6               | 5.9                    | 50                | 1.5                  | <1.0                 | <5.0                 | 7.29                   | <1.0              | 53             |
| MW-7  | 6.24.11  | 2.3               | <1.0              | <1.0                   | <2.0              | 0.35                 | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-7  | 9.21.11  | 3.3               | <1.0              | <1.0                   | 4.9               | 0.57                 | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-8  | 11.15.10 | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | <5.0                 | 7.36                   | <1.0              | 7.8            |
| MW-8  | 6.24.11  | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-8  | 9.20.11  | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-9  | 11.16.10 | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-9  | 6.24.11  | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-9  | 9.21.11  | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-10   | 11.15.10 | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | <5.0                 | 7.57                   | <1.0              | 52             |
| MW-10   | 6.24.11  | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-10   | 9.20.11  | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-11   | 11.16.10 | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | <5.0                 | 7.09                   | <1.0              | 13             |
| MW-11   | 6.24.11  | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-11   | 9.20.11  | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-12   | 11.15.10 | 23                | 16                | 13                     | 84                | 1.3                  | <1.0                 | <5.0                 | 7.28                   | <1.0              | 39             |
| MW-12   | 6.24.11  | 27                | <1.0              | 5.6                    | 9.4               | 0.51                 | 1.0                  | NA                   | NA                     | NA                | NA             |
| MW-12   | 9.21.11  | 63                | <1.0              | 17                     | 26                | 0.81                 | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-30   | 9.21.11  | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-31   | 9.20.11  | <1.0              | 1.2               | 1.1                    | 7.4               | 0.23                 | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-32   | 9.21.11  | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                     | NA                | NA             |
| MW-33   | 9.20.11  | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | NA                   | NA                     | NA                | NA             |
| MW-34   | 9.20.11  | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | NA                   | NA                     | NA                | NA             |

TABLE 2  
Lindriith Compressor Station  
GROUNDWATER ANALYTICAL SUMMARY

| Sample I.D.   | Date     | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | Xylenes<br>(µg/L) | TPH<br>GRO<br>(mg/L) | TPH<br>DRO<br>(mg/L) | TPH<br>MRO<br>(mg/L) | pH<br>(Standard Unlits) | Nitrate<br>(mg/L) | Iron<br>(mg/L) |
|---|----------|-------------------|-------------------|------------------------|-------------------|----------------------|----------------------|----------------------|-------------------------|-------------------|----------------|
| New Mexico Water Quality Control<br>Commission Groundwater Quality<br>Standards |          |                   |                   |                        |                   |                      |                      |                      |                         |                   |                |
| MW-35   | 9.2.1.11 | <1.0              | <1.0              | <1.0                   | <2.0              | <0.050               | <1.0                 | NA                   | NA                      | NA                | NA             |
| MW-36   | 9.2.1.11 | <1.0              | <1.0              | <1.0                   | <2.0              | 0.15                 | <1.0                 | NA                   | NA                      | NA                | NA             |
| MW-37   | 9.2.1.11 | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                      | NA                | NA             |
| MW-38   | 9.2.1.11 | 2,100             | 440               | 270                    | 1,800             | 26                   | 1.3                  | NA                   | NA                      | NA                | NA             |
| MW-39   | 9.2.1.11 | NAPL              | NAPL              | NAPL                   | NAPL              | NAPL                 | NAPL                 | NAPL                 | NA                      | NA                | NA             |
| MW-40   | 9.20.11  | <1.0              | <1.0              | <1.0                   | <2.0              | 0.21                 | <1.0                 | NA                   | NA                      | NA                | NA             |
| MW-41   | 9.20.11  | <10.0             | <10.0             | <10.0                  | 30                | <0.50                | 2.4                  | NA                   | NA                      | NA                | NA             |
| MW-42   | 9.20.11  | 70                | 42                | 4.1                    | 33                | 0.62                 | <1.0                 | NA                   | NA                      | NA                | NA             |

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level

NA = Not Analyzed

NE = Not Established

NAPL = Non-aqueous phase liquid

\* = Replaced by MW-1R

**TABLE 3**  
**Lindrith Compressor Station**  
**GROUNDWATER ELEVATIONS**

| Well I.D.          | Date     | Depth to Product<br>(feet BTOC) | Depth to Water<br>(feet BTOC) | Product Thickness | TOC Elevations<br>(feet AMSL) | Groundwater Elevation*<br>(feet AMSL) |
|--------------------|----------|---------------------------------|-------------------------------|-------------------|-------------------------------|---------------------------------------|
| MW-1R              | 11.11.10 | 31.73                           | 33.29                         | 1.56              | 6494.62                       | 6462.31                               |
| MW-1R              | 11.15.10 | 31.93                           | 32.86                         | 0.93              | 6494.62                       | 6462.35                               |
| MW-1R              | 6.22.11  | 32.57                           | 35.50                         | 2.93              | 6494.62                       | 6460.97                               |
| MW-1R <sup>1</sup> | 9.21.11  | 32.55                           | 38.20                         | 5.65              | 6494.64                       | 6460.00                               |
| MW-2               | 11.11.10 | 30.12                           | 30.15                         | 0.03              | 6491.08                       | 6460.95                               |
| MW-2               | 11.15.10 | 29.86                           | 29.90                         | 0.04              | 6491.08                       | 6461.21                               |
| MW-2               | 6.22.11  | 30.64                           | 30.73                         | 0.09              | 6491.08                       | 6460.41                               |
| MW-2               | 9.21.11  | 30.70                           | 30.72                         | 0.02              | 6491.08                       | 6460.37                               |
| MW-3               | 11.11.10 | ND                              | 32.08                         | ND                | 6492.78                       | 6460.70                               |
| MW-3               | 11.15.10 | ND                              | 32.96                         | ND                | 6492.78                       | 6459.82                               |
| MW-3               | 6.22.11  | ND                              | 32.61                         | ND                | 6492.78                       | 6460.17                               |
| MW-3               | 9.21.11  | 32.71                           | 32.72                         | 0.01              | 6492.78                       | 6460.07                               |
| MW-4               | 11.11.10 | ND                              | 33.31                         | ND                | 6493.99                       | 6460.68                               |
| MW-4               | 11.15.10 | ND                              | 33.10                         | ND                | 6493.99                       | 6460.89                               |
| MW-4               | 6.22.11  | ND                              | 33.45                         | ND                | 6493.99                       | 6460.54                               |
| MW-4               | 9.21.11  | ND                              | 34.46                         | ND                | 6493.99                       | 6459.53                               |
| MW-5               | 11.11.10 | ND                              | 34.37                         | ND                | 6496.06                       | 6461.69                               |
| MW-5               | 11.15.10 | ND                              | 35.64                         | ND                | 6496.06                       | 6460.42                               |
| MW-5               | 6.22.11  | ND                              | 34.52                         | ND                | 6496.06                       | 6461.54                               |
| MW-5               | 9.21.11  | ND                              | 34.57                         | ND                | 6496.06                       | 6461.49                               |
| MW-6               | 11.11.10 | ND                              | 33.79                         | ND                | 6494.72                       | 6460.93                               |
| MW-6               | 11.15.10 | ND                              | 33.63                         | ND                | 6494.72                       | 6461.09                               |
| MW-6               | 6.22.11  | ND                              | 34.09                         | ND                | 6494.72                       | 6460.63                               |
| MW-6               | 9.21.11  | ND                              | 33.86                         | ND                | 6494.72                       | 6460.86                               |
| MW-7               | 11.11.10 | ND                              | 36.65                         | ND                | 6492.49                       | 6455.84                               |
| MW-7               | 11.15.10 | ND                              | 34.70                         | ND                | 6492.49                       | 6457.79                               |
| MW-7               | 6.22.11  | ND                              | 34.87                         | ND                | 6492.49                       | 6457.62                               |
| MW-7               | 9.21.11  | ND                              | 34.95                         | ND                | 6492.49                       | 6457.54                               |
| MW-8               | 11.11.10 | ND                              | 34.39                         | ND                | 6493.10                       | 6458.71                               |
| MW-8               | 11.15.10 | ND                              | 32.16                         | ND                | 6493.10                       | 6460.94                               |
| MW-8               | 6.22.11  | ND                              | 32.70                         | ND                | 6493.10                       | 6460.40                               |
| MW-8               | 9.21.11  | ND                              | 32.66                         | ND                | 6493.10                       | 6460.44                               |
| MW-9               | 11.11.10 | 29.46                           | 30.34                         | 0.88              | 6491.17                       | 6461.38                               |
| MW-9               | 11.15.10 | 30.47                           | 31.24                         | 0.77              | 6491.17                       | 6460.42                               |
| MW-9               | 6.22.11  | 30.76                           | 32.14                         | 1.38              | 6491.17                       | 6459.90                               |
| MW-9               | 9.21.11  | 30.76                           | 32.46                         | 1.70              | 6491.17                       | 6459.78                               |
| MW-10              | 11.11.10 | ND                              | 29.85                         | ND                | 6492.39                       | 6462.54                               |
| MW-10              | 11.15.10 | ND                              | 31.83                         | ND                | 6492.39                       | 6460.56                               |
| MW-10              | 6.22.11  | ND                              | 32.40                         | ND                | 6492.39                       | 6459.99                               |
| MW-10              | 9.21.11  | ND                              | 32.62                         | ND                | 6492.39                       | 6459.77                               |
| MW-11              | 11.11.10 | ND                              | 34.05                         | ND                | 6489.84                       | 6455.79                               |
| MW-11              | 11.15.10 | ND                              | 35.05                         | ND                | 6489.84                       | 6454.79                               |
| MW-11              | 6.22.11  | ND                              | 34.23                         | ND                | 6489.84                       | 6455.61                               |
| MW-11              | 9.21.11  | ND                              | 34.03                         | ND                | 6489.84                       | 6455.81                               |

**TABLE 3**  
**Lindrith Compressor Station**  
**GROUNDWATER ELEVATIONS**

| Well I.D. | Date     | Depth to Product (feet BTOC) | Depth to Water (feet BTOC) | Product Thickness | TOC Elevations (feet AMSL) | Groundwater Elevation* (feet AMSL) |
|-----------|----------|------------------------------|----------------------------|-------------------|----------------------------|------------------------------------|
| MW-12     | 11.11.10 | ND                           | 32.04                      | ND                | 6487.95                    | 6455.91                            |
| MW-12     | 11.15.10 | ND                           | 32.74                      | ND                | 6487.95                    | 6455.21                            |
| MW-12     | 6.22.11  | ND                           | 32.73                      | ND                | 6487.95                    | 6455.22                            |
| MW-12     | 9.21.11  | ND                           | 32.93                      | ND                | 6487.95                    | 6455.02                            |
| MW-30     | 9.21.11  | 36.06                        | 36.14                      | 0.08              | 6498.21                    | 6462.12                            |
| MW-31     | 9.21.11  | ND                           | 37.99                      | ND                | 6498.24                    | 6460.25                            |
| MW-32     | 9.21.11  | 37.42                        | 38.31                      | 0.89              | 6499.30                    | 6461.55                            |
| MW-33     | 9.21.11  | ND                           | 32.90                      | ND                | 6493.04                    | 6460.14                            |
| MW-34     | 9.21.11  | ND                           | 34.50                      | ND                | 6488.60                    | 6454.10                            |
| MW-35     | 9.21.11  | ND                           | 34.36                      | ND                | 6485.71                    | 6451.35                            |
| MW-36     | 9.21.11  | ND                           | 35.16                      | ND                | 6496.77                    | 6461.61                            |
| MW-37     | 9.21.11  | 32.58                        | 33.10                      | 0.52              | 6492.96                    | 6460.19                            |
| MW-38     | 9.21.11  | ND                           | 34.68                      | ND                | 6495.10                    | 6460.42                            |
| MW-39     | 9.21.11  | 31.83                        | 33.12                      | 1.29              | 6486.85                    | 6454.54                            |
| MW-40     | 9.21.11  | ND                           | 35.47                      | ND                | 6498.65                    | 6463.18                            |
| MW-41     | 9.21.11  | ND                           | 32.67                      | ND                | 6487.00                    | 6454.33                            |
| MW-42     | 9.21.11  | ND                           | 29.97                      | ND                | 6490.10                    | 6460.13                            |

BTOC - below top of casing

AMSL - above mean sea level

TOC - top of casing

\* - corrected for presence of phase-separated hydrocarbon using a site-specific density correction factor of 0.63

NA - not applicable

1 - MW-1R re-surveyed 09/01/11

APPENDIX C

Monitoring Well Soil Boring Logs

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Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Rio Arriba County, NM  
 Project Manager: Kyle Summers

## MONITORING WELL LOG

### DRILLING & SAMPLING INFORMATION

Date Started: 8.15.11  
 Date Completed: 8.15.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G.  
 Boring Method: HSA  
 Bore Hole Dia: 8"  
 Sampler OD: 3.5"

Soil Boring: MW-30 (continued)  
 Project #: 04-10006  
 Drawn By: Cristi Randolph  
 Approved By: Kyle Summers

**BORING METHOD**  
 HSA - HOLLOW STEM AUGERS  
 CFA - CONTINUOUS FLIGHT AUGERS  
 GP - GEOPROBE  
 AR - AIR ROTARY

**SAMPLER TYPE**  
 CB - FIVE FOOT CORE BARREL  
 SS - DRIVEN SPLIT SPOON  
 ST - PRESSED SHELBY TUBE

**GROUNDWATER DEPTH**  
 ∇ AT COMPLETION  
 ∇ AT WELL STABILIZATION

Well Diam: NA  
 Screen Size: NA  
 Screen Length: NA  
 Casing Length: NA

| Stratum Depth | Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/FID Readings (ppm) | BORING AND SAMPLING NOTES |
|---------------|-------------|------------|-----------------|------------|-------------------|------------------------|---------------------------|
|               |             |            |                 |            |                   |                        |                           |

| Soil Detail | SOIL CLASSIFICATION |
|-------------|---------------------|
|             | SURFACE ELEVATION:  |

|             |   |
|-------------|---|
| Soil Detail | <p>SANDSTONE, Light Olive, Gray to Yellowish Gray, Slight Moisture, Faint Petroleum Hydrocarbon Odor</p> <hr/> <p style="text-align: center;">End of Boring @ 40'</p> |
|-------------|---|

|               |             |            |                 |            |                   |                        |  |
|---------------|-------------|------------|-----------------|------------|-------------------|------------------------|--|
| Stratum Depth | Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/FID Readings (ppm) |  |
|               | 40          |            |                 |            |                   | 344                    |  |

NOTE: This log is not to be used outside of the original report.

Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Rio Arriba County, NM  
 Project Manager: Kyle Summers

## MONITORING WELL LOG

### DRILLING & SAMPLING INFORMATION

Date Started: 8.15.11  
 Date Completed: 8.15.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G.  
 Boring Method: HSA  
 Bore Hole Dia: 8"  
 Sampler OD: 3.5"

Soil Boring: MW-31  
 Project #: 0410006  
 Drawn By: Cristi Randolph  
 Approved By: Kyle Summers

Well Diam: NA  
 Screen Size: NA  
 Screen Length: NA  
 Casing Length: NA

**BORING METHOD**  
 HSA - HOLLOW STEM AUGERS  
 CFA - CONTINUOUS FLIGHT AUGERS  
 GP - GEOPROBE  
 AR - AIR ROTARY

**SAMPLER TYPE**  
 CB - FIVE FOOT CORE BARREL  
 SS - DRIVEN SPLIT SPOON  
 ST - PRESSED SHELBY TUBE

**GROUNDWATER DEPTH**  
 ∇ AT COMPLETION  
 ∇ AT WELL STABILIZATION

| Stratum Depth | Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/PID Readings (ppm) | BORING AND SAMPLING NOTES |
|---------------|-------------|------------|-----------------|------------|-------------------|------------------------|---------------------------|
|               |             |            |                 |            |                   |                        |                           |

| Soil Classification |
|---------------------|
| SURFACE ELEVATION:  |

|                        |   |               |             |            |                 |            |                   |                        |   |
|------------------------|---|---------------|-------------|------------|-----------------|------------|-------------------|------------------------|---|
| Moisture Well<br>Drill | <p>SILTY SAND, Moderate Yellowish Brown to Pale Yellowish, Dry, No Odor</p> <p>SILTY SAND with some GRAVEL, Moderate Yellowish Brown, Dry, Hard 5' - 6', No Odor</p> <p>SILTY SAND, Pale Yellowish Brown to Moderate Yellowish Brown, Dry, No Odor</p> <p>SILTY SAND with CLAY, Moderate Yellowish Brown, Hard, Dry, Slight Petroleum Hydrocarbon Staining</p> <p>SANDSTONE, Very Fine to Fine, Yellowish Gray to Pale Yellowish Brown, Dry No Odor</p> | Stratum Depth | Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/PID Readings (ppm) | <p style="text-align: center;">After 15' - Too Hard<br/>Switch to Split Spoon</p> <p style="text-align: right;">Fe Staining @ 35'</p> |
|------------------------|---|---------------|-------------|------------|-----------------|------------|-------------------|------------------------|---|

|               |             |            |                 |            |                   |                        |   |
|---------------|-------------|------------|-----------------|------------|-------------------|------------------------|---|
| Stratum Depth | Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/PID Readings (ppm) | <p style="text-align: center;">After 15' - Too Hard<br/>Switch to Split Spoon</p> <p style="text-align: right;">Fe Staining @ 35'</p> |
|---------------|-------------|------------|-----------------|------------|-------------------|------------------------|---|

NOTE: This log is not to be used outside of the original report.

Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Rio Arriba County, NM  
 Project Manager: Kyle Summers

## MONITORING WELL LOG

### DRILLING & SAMPLING INFORMATION

Date Started: 8.15.11  
 Date Completed: 8.15.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G.  
 Boring Method: HSA  
 Bore Hole Dia: 8"  
 Sampler OD: 3.5"

Soil Boring: MW-31 (continued)  
 Project #: 0410006  
 Drawn By: Cristi Randolph  
 Approved By: Kyle Summers

**BORING METHOD**  
 HSA - HOLLOW STEM AUGERS  
 CFA - CONTINUOUS FLIGHT AUGERS  
 GP - GEOPROBE  
 AR - AIR ROTARY

**SAMPLER TYPE**  
 CB - FIVE FOOT CORE BARREL  
 SS - DRIVEN SPLIT SPOON  
 ST - PRESSED SHELBY TUBE

**GROUNDWATER DEPTH**  
 ∇ AT COMPLETION  
 ∇ AT WELL STABILIZATION

Well Diam: NA  
 Screen Size: NA  
 Screen Length: NA  
 Casing Length: NA

| BORING AND SAMPLING NOTES |  |  |  |  |
|---------------------------|--|--|--|--|
|                           |  |  |  |  |

| Soil Well Detail | SOIL CLASSIFICATION | Stratum Depth |
|------------------|---------------------|---------------|
|                  | SURFACE ELEVATION:  |               |

|  |  |  |
|--|--|--|
|  | SANDSTONE, Light Olive, Gray to Yellowish Gray,<br>Slight Moisture, Faint Petroleum Hydrocarbon Odor |  |
|  | <b>End of Boring @ 40'</b>   |  |

| Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/FID Readings (ppm) |
|-------------|------------|-----------------|------------|-------------------|------------------------|
| 317         |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 2                      |
|             |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |

NOTE: This log is not to be used outside of the original report.



















Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Rio Arriba County, NM  
 Project Manager: Kyle Summers

## MONITORING WELL LOG

### DRILLING & SAMPLING INFORMATION

Date Started: 8.18.11  
 Date Completed: 8.19.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G.  
 Boring Method: HSA  
 Bore Hole Dia: 8"  
 Sampler OD: 3.5"

Monitoring Well Number: MW-36 (Continued)  
 Project #: 0410006  
 Drawn By: RDH  
 Approved By: Kyle Summers

Well Diam: \_\_\_\_\_  
 Screen Size: 0.01"  
 Screen Length: 15'  
 Casing Length: 25'

**BORING METHOD**  
 HSA - HOLLOW STEM AUGERS  
 CFA - CONTINUOUS FLIGHT AUGERS  
 GP - GEOPROBE  
 AR - AIR ROTARY

**SAMPLER TYPE**  
 CB - FIVE FOOT CORE BARREL  
 SS - DRIVEN SPLIT SPOON  
 ST - PRESSED SHELBY TUBE

**GROUNDWATER DEPTH**  
 ∇ AT COMPLETION  
 ∇ AT WELL STABILIZATION

| Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/PID Readings (ppm) | BORING AND SAMPLING NOTES |
|-------------|------------|-----------------|------------|-------------------|------------------------|---------------------------|
|             |            |                 |            |                   |                        |                           |

| Metric Well Detail | SOIL CLASSIFICATION | Stratum |
|--------------------|---------------------|---------|
|                    | SURFACE ELEVATION:  |         |

|                              |  |
|------------------------------|--|
| SAND (Continued)             |  |
| CLAYEY SAND, Moderate Gray   |  |
| Bottom of Boring @ 40 ft bgs |  |

|    |  |  |  |  |  |  |
|----|--|--|--|--|--|--|
| 40 |  |  |  |  |  |  |
| 45 |  |  |  |  |  |  |
| 50 |  |  |  |  |  |  |
| 55 |  |  |  |  |  |  |
| 60 |  |  |  |  |  |  |
| 65 |  |  |  |  |  |  |

NOTE: This log is not to be used outside of the original report.

Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Rio Arriba County, NM  
 Project Manager: Kyle Summers

## MONITORING WELL LOG

Monitoring Well Number: MW-37  
 Project #: 0410006  
 Drawn By: RDH  
 Approved By: Kyle Summers

### DRILLING & SAMPLING INFORMATION

Date Started: 8.19.11  
 Date Completed: 8.19.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G. Well Diam: \_\_\_\_\_  
 Boring Method: HSA Screen Size: 0.01"  
 Bore Hole Dia: 8" Screen Length: 15'  
 Sampler OD: 3.5" Casing Length: 25'

|                                |                            |                          |
|--------------------------------|----------------------------|--------------------------|
| <b>BORING METHOD</b>           | <b>SAMPLER TYPE</b>        | <b>GROUNDWATER DEPTH</b> |
| HSA - HOLLOW STEM AUGERS       | CB - FIVE FOOT CORE BARREL | ∇ AT COMPLETION          |
| CFA - CONTINUOUS FLIGHT AUGERS | SS - DRIVEN SPLIT SPOON    | ∇ AT WELL STABILIZATION  |
| GP - GEOPROBE                  | ST - PRESSED SHELBY TUBE   |                          |
| AR - AIR ROTARY                |                            |                          |

|                           |  |  |  |  |
|---------------------------|--|--|--|--|
| BORING AND SAMPLING NOTES |  |  |  |  |
|---------------------------|--|--|--|--|

| Soil Well Detail | SOIL CLASSIFICATION      | Stratum Depth |
|------------------|--------------------------|---------------|
|                  | SURFACE ELEVATION: _____ |               |

| Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/PID Readings (ppm) |
|-------------|------------|-----------------|------------|-------------------|------------------------|
| 0           |            |                 |            |                   |                        |
| 5           |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
| 10          |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
| 15          |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
| 20          |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
|             |            |                 |            |                   | 0                      |
| 25          |            | 25 - 26         |            |                   | 16                     |
|             |            |                 |            |                   | 539                    |
|             |            |                 |            |                   | 139                    |
|             |            |                 |            |                   | 38                     |
|             |            |                 |            |                   | 594                    |
|             |            |                 |            |                   | 617                    |
| 30          |            | 29 - 30         |            |                   | 509                    |
|             |            |                 |            |                   | 558                    |
|             |            |                 |            |                   | 499                    |
|             |            |                 |            |                   | 413                    |
|             |            |                 |            |                   | 185                    |

|          |  |  |
|----------|--|--|
| 0        | SILTY SAND & GRAVEL, Moderate Yellowish Brown, Dry No Odor   |  |
| Hand Dug |  |  |
| 5        | SILTY SAND, Pale to Moderate Yellowish Brown, Slightly Moist, No Odor  |  |
| 10       | SILTY SAND, Moderate Yellowish Brown, Fine Grained, Slightly Moist, No Odor                                    |  |
| 15       | SAND, Moderate to Dark Yellowish Brown, Moist, No Odor   |  |
| 20       | SILTY CLAY, Dark Yellowish Brown   |  |
| 25       | SILTY CLAY with SAND, Moderate Yellowish Brown, Moist, No Odor   |  |
| 30       | SHALEY SAND, Moderate Dark Gray to Moderate Yellowish Brown, Moist, Petroleum Hydrocarbon Odor                 |  |
|          | SANDSTONE, Moderate Yellowish Broen to Pale Yellowish Brown, Grayish Olive to Moderate Dark Gray @ 39.5 ft bgs |  |

Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Rio Arriba County, NM  
 Project Manager: Kyle Summers

## MONITORING WELL LOG

### DRILLING & SAMPLING INFORMATION

Date Started: 8.19.11  
 Date Completed: 8.19.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G.  
 Boring Method: HSA  
 Bore Hole Dia: 8"  
 Sampler OD: 3.5"

Monitoring Well Number: MW-37 (Continued)  
 Project #: 0410006  
 Drawn By: RDH  
 Approved By: Kyle Summers

**BORING METHOD**  
 HSA - HOLLOW STEM AUGERS  
 CFA - CONTINUOUS FLIGHT AUGERS  
 GP - GEOPROBE  
 AR - AIR ROTARY

**SAMPLER TYPE**  
 CB - FIVE FOOT CORE BARREL  
 SS - DRIVEN SPLIT SPOON  
 ST - PRESSED SHELBY TUBE

**GROUNDWATER DEPTH**  
 AT COMPLETION  
 AT WELL STABILIZATION

Well Diam: \_\_\_\_\_  
 Screen Size: 0.01"  
 Screen Length: 15'  
 Casing Length: 25'

| Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/PID Readings (ppm) | BORING AND SAMPLING NOTES |
|-------------|------------|-----------------|------------|-------------------|------------------------|---------------------------|
|-------------|------------|-----------------|------------|-------------------|------------------------|---------------------------|

| Soil Well Point | SOIL CLASSIFICATION      | Stratum |
|-----------------|--------------------------|---------|
|                 | SURFACE ELEVATION: _____ |         |

|  |                              |  |
|--|------------------------------|--|
|  | SILTY SAND (Continued)       |  |
|  | Bottom of Boring @ 40 ft bgs |  |

|    |  |  |  |  |     |  |
|----|--|--|--|--|-----|--|
|    |  |  |  |  | 102 |  |
|    |  |  |  |  | 151 |  |
|    |  |  |  |  | 167 |  |
|    |  |  |  |  | 161 |  |
|    |  |  |  |  | 43  |  |
| 40 |  |  |  |  |     |  |
| 45 |  |  |  |  |     |  |
| 50 |  |  |  |  |     |  |
| 55 |  |  |  |  |     |  |
| 60 |  |  |  |  |     |  |
| 65 |  |  |  |  |     |  |

NOTE: This log is not to be used outside of the original report.

Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Rio Arriba County, NM  
 Project Manager: Kyle Summers

## MONITORING WELL LOG

### DRILLING & SAMPLING INFORMATION

Date Started: 8.19.11  
 Date Completed: 8.19.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G.  
 Boring Method: HSA  
 Bore Hole Dia: 8"  
 Sampler OD: 3.5"

Monitoring Well Number: MW-38  
 Project #: 0410006  
 Drawn By: RDH  
 Approved By: Kyle Summers

**BORING METHOD**  
 HSA - HOLLOW STEM AUGERS  
 CFA - CONTINUOUS FLIGHT AUGERS  
 GP - GEOPROBE  
 AR - AIR ROTARY

**SAMPLER TYPE**  
 CB - FIVE FOOT CORE BARREL  
 SS - DRIVEN SPLIT SPOON  
 ST - PRESSED SHELBY TUBE

**GROUNDWATER DEPTH**  
 ∇ AT COMPLETION  
 ∇ AT WELL STABILIZATION

Well Diam:  
 Screen Size: 0.01"  
 Screen Length: 15'  
 Casing Length: 25'

### BORING AND SAMPLING NOTES

| Well<br>Depth | SOIL CLASSIFICATION   | Stratum | Depth<br>Scale | Sample<br>No. | Sample Interval | % Recovery | Groundwater Depth | FID/PID Readings (ppm) | BORING AND SAMPLING NOTES |
|---------------|---|---------|----------------|---------------|-----------------|------------|-------------------|------------------------|---------------------------|
|               | SURFACE ELEVATION:  |         |                |               |                 |            |                   |                        |                           |
|               | SILTY SAND  |         |                |               |                 |            |                   |                        |                           |
|               | SILTY SAND, Moderate to Pale Yellowish Brown, Moist, No Odor  |         | 5              |               |                 |            |                   | 0                      |                           |
|               | SANDY SILT, Dark Yellowish Brown, Moist, No Odor  |         | 10             |               |                 |            |                   | 0                      |                           |
|               | SILTY SAND, Moderate Yellowish Brown, Moist, No Odor  |         | 15             |               |                 |            |                   | 5                      |                           |
|               | WEATHERED SANDSTONE, Pale to Moderate Yellowish Brown with Black Spots  |         | 20             |               |                 |            |                   | 6                      |                           |
|               | SANDSTONE, Pale to Moderate Yellowish Brown with Black Spots, Iron Staining @ 28 - 35 ft bgs, Petroleum Hydrocarbon Odor @34' |         | 25             |               |                 |            |                   | 5                      |                           |
|               |   |         | 27' - 28'      |               |                 |            |                   | 3                      |                           |
|               |   |         | 30             |               |                 |            |                   | 2                      |                           |
|               |   |         | 31' - 34'      |               |                 |            |                   | 2                      |                           |
|               |   |         |                |               |                 |            |                   | 8                      |                           |
|               |   |         |                |               |                 |            |                   | 8                      |                           |
|               |   |         |                |               |                 |            |                   | 3                      |                           |
|               |   |         |                |               |                 |            |                   | 5                      |                           |
|               |   |         |                |               |                 |            |                   | 6                      |                           |
|               |   |         |                |               |                 |            |                   | 12                     |                           |
|               |   |         |                |               |                 |            |                   | 450                    |                           |
|               |   |         |                |               |                 |            |                   | 305                    |                           |

NOTE: This log is not to be used outside of the original report.

Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Bio Arriba County, NM  
 Project Manager: Kyle Summers

## MONITORING WELL LOG

### DRILLING & SAMPLING INFORMATION

Date Started: 8.19.11  
 Date Completed: 8.19.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G.  
 Boring Method: HSA  
 Bore Hole Dia: 8"  
 Sampler OD: 3.5"

Monitoring Well Number: MW-38 (Continued)  
 Project #: 0410006  
 Drawn By: RDH  
 Approved By: Kyle Summers

Well Diam: \_\_\_\_\_  
 Screen Size: 0.01"  
 Screen Length: 15'  
 Casing Length: 25'

|                                |                            |                          |
|--------------------------------|----------------------------|--------------------------|
| <b>BORING METHOD</b>           | <b>SAMPLER TYPE</b>        | <b>GROUNDWATER DEPTH</b> |
| HSA - HOLLOW STEM AUGERS       | CB - FIVE FOOT CORE BARREL | ∇ AT COMPLETION          |
| CFA - CONTINUOUS FLIGHT AUGERS | SS - DRIVEN SPLIT SPOON    | ∇ AT WELL STABILIZATION  |
| GP - GEOPROBE                  | ST - PRESSED SHELBY TUBE   |                          |
| AR - AIR ROTARY                |                            |                          |

|                           |  |  |  |
|---------------------------|--|--|--|
| BORING AND SAMPLING NOTES |  |  |  |
|---------------------------|--|--|--|

| SOIL CLASSIFICATION |
|---------------------|
| SURFACE ELEVATION:  |

|               |             |            |                 |            |                   |                        |
|---------------|-------------|------------|-----------------|------------|-------------------|------------------------|
| Stratum Depth | Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/PID Readings (ppm) |
|---------------|-------------|------------|-----------------|------------|-------------------|------------------------|

|      |  |
|------|--|
| Soil | SANDSTONE, Olive Gray, Wet, Petroleum Hydrocarbon Odor |
| 40   | Bottom of Boring @ 40 ft bgs                           |

|    |  |  |  |  |  |     |
|----|--|--|--|--|--|-----|
| 40 |  |  |  |  |  | 374 |
| 45 |  |  |  |  |  | 388 |
| 50 |  |  |  |  |  | 60  |
| 55 |  |  |  |  |  | 37  |
| 60 |  |  |  |  |  | 25  |
| 65 |  |  |  |  |  |     |

NOTE: This log is not to be used outside of the original report.



Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Rio Arriba County, NM  
 Project Manager: Kyle Summers

### MONITORING WELL LOG

#### DRILLING & SAMPLING INFORMATION

Date Started: 8.22.11  
 Date Completed: 8.22.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G.  
 Boring Method: HSA  
 Bore Hole Dia: 8"  
 Sampler OD: 3.5"

Monitoring Well Number: MW-39 (Continued)  
 Project #: 0410006  
 Drawn By: RDH  
 Approved By: Kyle Summers

**BORING METHOD**  
 HSA - HOLLOW STEM AUGERS  
 CFA - CONTINUOUS FLIGHT AUGERS  
 GP - GEOPROBE  
 AR - AIR ROTARY

**SAMPLER TYPE**  
 CB - FIVE FOOT CORE BARREL  
 SS - DRIVEN SPLIT SPOON  
 ST - PRESSED SHELBY TUBE

**GROUNDWATER DEPTH**  
 AT COMPLETION  
 AT WELL STABILIZATION

Well Diam:  
 Screen Size: 0.01"  
 Screen Length: 15'  
 Casing Length: 22'

|                           |            |                 |            |
|---------------------------|------------|-----------------|------------|
| BORING AND SAMPLING NOTES |            |                 |            |
|                           |            |                 |            |
| Groundwater Depth         | % Recovery | Sample Interval | Sample No. |

|                    |                     |
|--------------------|---------------------|
| Soil Well<br>Depth | SOIL CLASSIFICATION |
|                    | SURFACE ELEVATION:  |

|                    |                              |
|--------------------|------------------------------|
| Soil Well<br>Depth | SANDSTONE (Continued)        |
|                    | Bottom of Boring @ 37 ft bgs |

|                  |                |               |                 |            |                   |                        |
|------------------|----------------|---------------|-----------------|------------|-------------------|------------------------|
| Stratum<br>Depth | Depth<br>Scale | Sample<br>No. | Sample Interval | % Recovery | Groundwater Depth | FID/FID Readings (ppm) |
|                  |                |               |                 |            |                   |                        |
|                  |                |               |                 |            |                   | 2                      |
|                  |                |               |                 |            |                   | 3                      |
|                  | 40             |               |                 |            |                   |                        |
|                  | 45             |               |                 |            |                   |                        |
|                  | 50             |               |                 |            |                   |                        |
|                  | 55             |               |                 |            |                   |                        |
|                  | 60             |               |                 |            |                   |                        |
|                  | 65             |               |                 |            |                   |                        |

NOTE: This log is not to be used outside of the original report.

Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Rio Arriba County, NM  
 Project Manager: Kyle Summers

## MONITORING WELL LOG

### DRILLING & SAMPLING INFORMATION

Date Started: 8.23.11  
 Date Completed: 8.23.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G.  
 Boring Method: HSA  
 Bore Hole Dia: 8"  
 Sampler OD: 3.5"

Monitoring Well Number: MW-40  
 Project #: 0410006  
 Drawn By: RDH  
 Approved By: Kyle Summers

**BORING METHOD**  
 HSA - HOLLOW STEM AUGERS  
 CFA - CONTINUOUS FLIGHT AUGERS  
 GP - GEOPROBE  
 AR - AIR ROTARY

**SAMPLER TYPE**  
 CB - FIVE FOOT CORE BARREL  
 SS - DRIVEN SPLIT SPOON  
 ST - PRESSED SHELBY TUBE

**GROUNDWATER DEPTH**  
 ∇ AT COMPLETION  
 ∇ AT WELL STABILIZATION

Well Diam:  
 Screen Size: 0.01"  
 Screen Length: 15'  
 Casing Length: 25'

### BORING AND SAMPLING NOTES

| Sector Well Detail | SOIL CLASSIFICATION   | Stratum | Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | PDA/PID Readings (ppm) |
|--------------------|---|---------|-------------|------------|-----------------|------------|-------------------|------------------------|
|                    | SURFACE ELEVATION:  |         |             |            |                 |            |                   |                        |
|                    | SANDY SILT, Moderate to Dark Yellowish Brown, Firm, Dry, No Odor                          |         |             |            |                 |            |                   | 0                      |
|                    | SILTY SAND, Pale Yellowish Brown, Loose to 8 ft bgs, Firm @ 8 - 13.5 ft bgs, Dry, No Odor |         |             |            |                 |            |                   | 0                      |
|                    | SAND, Moderate Yellowish Brown, Very Fine to to Fine Grained, Slight Silt, Dry, No Odor   |         |             |            |                 |            |                   | 0                      |
|                    | SILTY SANDSTONE, Pale Yellowish Brown to Light Olive Brown, Firm, Dry, No Odor            |         |             |            |                 |            |                   | 0                      |
|                    | SANDSTONE, Moderate Yellowish Brown, Very Fine to Fine Grained, Dry, No Odor              |         |             |            |                 |            |                   | 0                      |
|                    | SANDSTONE, Brownish Black, Hard, Slightly Moist, No Odor                                  |         |             |            |                 |            |                   | 0                      |
|                    | SANDSTONE, Pale Yellowish Gray, Dry, No Odor  |         |             |            |                 |            |                   | 0                      |
|                    | SANDSTONE, Pale Orange to Moderate Yellowish Orange, Moist, No Odor                       |         |             |            |                 |            |                   | 0                      |
|                    | SAND, Pale Yellowish Brown & Slight Olive Orange, Wet @ 32 ft bgs, No Odor                |         |             |            |                 |            |                   | 1                      |
|                    | SAND, Grayish Black, Wet, No Odor   |         |             |            |                 |            |                   | 2                      |
|                    |   |         |             |            |                 |            |                   | 0                      |
|                    |   |         |             |            |                 |            |                   | 2                      |
|                    |   |         |             |            |                 |            |                   | 5                      |

NOTE: This log is not to be used outside of the original report.



Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Rio Arriba County, NM  
 Project Manager: Kyle Summers

## MONITORING WELL LOG

### DRILLING & SAMPLING INFORMATION

Date Started: 8.23.11  
 Date Completed: 8.23.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G.  
 Boring Method: HSA  
 Bore Hole Dia: 8"  
 Sampler OD: 3.5"

Monitoring Well Number: MW-41  
 Project #: 0410006  
 Drawn By: RDH  
 Approved By: Kyle Summers

**BORING METHOD**  
 HSA - HOLLOW STEM AUGERS  
 CFA - CONTINUOUS FLIGHT AUGERS  
 GP - GEOPROBE  
 AR - AIR ROTARY

**SAMPLER TYPE**  
 CB - FIVE FOOT CORE BARREL  
 SS - DRIVEN SPLIT SPOON  
 ST - PRESSED SHELBY TUBE

**GROUNDWATER DEPTH**  
 ∇ AT COMPLETION  
 ∇ AT WELL STABILIZATION

Well Diam:  
 Screen Size: 0.01"  
 Screen Length: 15'  
 Casing Length: 23'

### BORING AND SAMPLING NOTES

| Boring Well Depth | SOIL CLASSIFICATION   | Stratum | Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/PID Readings (ppm) |
|-------------------|---|---------|-------------|------------|-----------------|------------|-------------------|------------------------|
|                   | <b>SURFACE ELEVATION:</b>   |         |             |            |                 |            |                   |                        |
| 0                 | SILTY SAND, Moderate to Dark Yellowish Brown, Dry, Odor   |         |             |            |                 |            |                   | 1                      |
| 5                 | SANDY SILT, Pale to Moderate Yellowish Brown, Dry, No Odor  |         |             |            |                 |            |                   | 1                      |
| 10                | SAND, Pale Yellowish Brown, Very Fine to Fine Grained, Slight Silt, Dry, No Odor  |         |             |            |                 |            |                   | 0                      |
| 15                | SILTY SAND, Pale Yellowish Brown, Firm, Dry, No Odor  |         |             |            |                 |            |                   | 0                      |
| 20                | SANDY SANDSTONE, Moderate Yellowish Brown, Thin Dusky Brown Layers @ 27 - 29 ft bgs, Loose to Firm, Slightly Moist, Very Moist @ 30 ft bgs, No Odor |         |             |            |                 |            |                   | 0                      |
| 25                |   |         |             |            |                 |            |                   | 0                      |
| 30                |   |         |             |            |                 |            |                   | 0                      |

NOTE: This log is not to be used outside of the original report.



Client: Enterprise Field Services, LLC  
 Project Name: Lindreth Compressor Station  
 Project Location: Rio Arriba County, NM  
 Project Manager: Kyle Summers

### MONITORING WELL LOG

**DRILLING & SAMPLING INFORMATION**

Date Started: 8.23.11  
 Date Completed: 8.23.11  
 Drilling Company: Enviro-Drill  
 Driller: Rodney Hammer  
 Geologist: Kyle Summers, C.P.G.  
 Boring Method: HSA  
 Bore Hole Dia: 8"  
 Sampler OD: 3.5"

Monitoring Well Number: MW-42  
 Project #: 0410006  
 Drawn By: BDH  
 Approved By: Kyle Summers

**BORING METHOD**  
 HSA - HOLLOW STEM AUGERS  
 CFA - CONTINUOUS FLIGHT AUGERS  
 GP - GEOPROBE  
 AR - AIR ROTARY

**SAMPLER TYPE**  
 CB - FIVE FOOT CORE BARREL  
 SS - DRIVEN SPLIT SPOON  
 ST - PRESSED SHELBY TUBE

**GROUNDWATER DEPTH**  
 ∇ AT COMPLETION  
 ∇ AT WELL STABILIZATION

Well Diam:  
 Screen Size: 0.01"  
 Screen Length: 15'  
 Casing Length: 22'

**BORING AND SAMPLING NOTES**

|                    |                            |  |               |             |            |                 |            |                   |                        |                           |
|--------------------|----------------------------|--|---------------|-------------|------------|-----------------|------------|-------------------|------------------------|---------------------------|
| Monitor Well Depth | <b>SOIL CLASSIFICATION</b> |  | Stratum Depth | Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/FID Readings (ppm) | BORING AND SAMPLING NOTES |
|                    | SURFACE ELEVATION:         |  |               |             |            |                 |            |                   |                        |                           |

|                    |  |  |               |             |            |                 |            |                   |                        |                           |
|--------------------|--|--|---------------|-------------|------------|-----------------|------------|-------------------|------------------------|---------------------------|
| Monitor Well Depth | SANDY SILT, Moderate Yellowish Brown to Moderate Brown, Firm, Dry, No Odor   |  | Stratum Depth | Depth Scale | Sample No. | Sample Interval | % Recovery | Groundwater Depth | FID/FID Readings (ppm) | BORING AND SAMPLING NOTES |
|                    | SILTY SAND, Pale to Moderate Yellowish Brown, Very Fine Grained, Loose, Increasing Firmness with Depth, Dry, No Odor |  |               |             |            |                 |            |                   |                        |                           |
|                    | SAND, Pale Yellowish Brown, Very Fine to Fine Grained, Dry, No Odor  |  |               |             |            |                 |            |                   |                        |                           |
|                    | SILTY SAND, Moderate Yellowish Brown with Occasional Dark Brown Streak, Slightly Moist, No Odor                      |  |               |             |            |                 |            |                   |                        |                           |
|                    | SAND/SANDSTONE, Pale to Dark Yellowish Orange, Iron Oxidation, Slightly Moist, No Odor                               |  |               |             |            |                 |            |                   |                        |                           |
|                    | SHALEY SANDSTONE, Dark Yellowish Brown to Olive Gray, Slightly Moist, Hydrocarbon Odor                               |  |               |             |            |                 |            |                   |                        |                           |
|                    | SHALEY SANDSTONE, Dark Yellowish Brown, Very Moist, Hydrocarbon Odor   |  |               |             |            |                 |            |                   |                        |                           |
|                    | SANDSTONE, Moderate Yellowish Brown, Moist, No Odor to Slight Hydrocarbon Odor                                       |  |               |             |            |                 |            |                   |                        |                           |
|                    |  |  |               |             |            |                 |            |                   |                        |                           |
|                    |  |  |               |             |            |                 |            |                   |                        |                           |
|                    |  |  |               |             |            |                 |            |                   |                        |                           |
|                    |  |  |               |             |            |                 |            |                   |                        |                           |
|                    |  |  |               |             |            |                 |            |                   |                        |                           |
|                    |  |  |               |             |            |                 |            |                   |                        |                           |

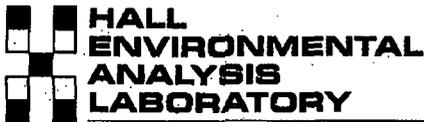
NOTE: This log is not to be used outside of the original report.



APPENDIX D

Laboratory Data Reports & Chain of Custody  
Documentation

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COVER LETTER

Friday, August 26, 2011

Kyle Summers  
Southwest Geoscience  
606 S. Rio Grande Unit A  
Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Lindrith CS

Order No.: 1108777

Dear Kyle Summers:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 8/18/2011 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 26, 2011.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901  
AZ license # AZ0682

# Hall Environmental Analysis Laboratory, Inc.

Date: 26-Aug-11  
Analytical Report

|                                     |  |
|-------------------------------------|--|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-30 (12')         |
| <b>Lab Order:</b> 1108777           | <b>Collection Date:</b> 8/15/2011 1:00:00 PM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/18/2011              |
| <b>Lab ID:</b> 1108777-01           | <b>Matrix:</b> SOIL                          |

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|--|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB           |
| Diesel Range Organics (DRO)                    | 2300   | 190      |      | mg/Kg | 20 | 8/23/2011 12:03:20 PM |
| Surr: DNOP                                     | 0      | 73.4-123 | S    | %REC  | 20 | 8/23/2011 12:03:20 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)                  | ND     | 47       |      | mg/Kg | 10 | 8/22/2011 4:12:16 PM  |
| Surr: BFB                                      | 91.3   | 75.2-136 |      | %REC  | 10 | 8/22/2011 4:12:16 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA          |
| Benzene  | ND     | 0.47     |      | mg/Kg | 10 | 8/22/2011 4:12:16 PM  |
| Toluene  | ND     | 0.47     |      | mg/Kg | 10 | 8/22/2011 4:12:16 PM  |
| Ethylbenzene                                   | ND     | 0.47     |      | mg/Kg | 10 | 8/22/2011 4:12:16 PM  |
| Xylenes, Total                                 | ND     | 0.94     |      | mg/Kg | 10 | 8/22/2011 4:12:16 PM  |
| Surr: 4-Bromofluorobenzene                     | 92.5   | 90.3-115 |      | %REC  | 10 | 8/22/2011 4:12:16 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                        |
| 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: 26-Aug-11  
Analytical Report

|                                     |  |
|-------------------------------------|--|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-30 (35")         |
| <b>Lab Order:</b> 1108777           | <b>Collection Date:</b> 8/15/2011 2:00:00 PM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/18/2011              |
| <b>Lab ID:</b> 1108777-02           | <b>Matrix:</b> SOIL                          |

| Analyses                                       | Result | PQL      | Qual | Units | DF  | Date Analyzed         |
|--|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: JB           |
| Diesel Range Organics (DRO)                    | 360    | 9.7      |      | mg/Kg | 1   | 8/22/2011 12:53:59 PM |
| Surr: DNOP                                     | 95.3   | 73.4-123 |      | %REC  | 1   | 8/22/2011 12:53:59 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |     | Analyst: RAA          |
| Gasoline Range Organics (GRO)                  | 8500   | 480      |      | mg/Kg | 100 | 8/24/2011 3:19:46 PM  |
| Surr: BFB                                      | 166    | 75.2-136 | S    | %REC  | 100 | 8/24/2011 3:19:46 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |     | Analyst: RAA          |
| Benzene  | ND     | 0.48     |      | mg/Kg | 10  | 8/22/2011 4:41:07 PM  |
| Toluene  | 7.0    | 0.48     |      | mg/Kg | 10  | 8/22/2011 4:41:07 PM  |
| Ethylbenzene                                   | 18     | 0.48     |      | mg/Kg | 10  | 8/22/2011 4:41:07 PM  |
| Xylenes, Total                                 | 100    | 0.96     |      | mg/Kg | 10  | 8/22/2011 4:41:07 PM  |
| Surr: 4-Bromofluorobenzene                     | 209    | 90.3-115 | S    | %REC  | 10  | 8/22/2011 4:41:07 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: 26-Aug-11  
Analytical Report

|                                     |  |
|-------------------------------------|--|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-31 (16')         |
| <b>Lab Order:</b> 1108777           | <b>Collection Date:</b> 8/15/2011 5:00:00 PM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/18/2011              |
| <b>Lab ID:</b> 1108777-03           | <b>Matrix:</b> SOIL                          |

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 9.9      |      | mg/Kg | 1  | 8/22/2011 1:28:56 PM |
| Surr: DNOP                                     | 78.8   | 73.4-123 |      | %REC  | 1  | 8/22/2011 1:28:56 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 24       |      | mg/Kg | 5  | 8/24/2011 4:17:31 PM |
| Surr: BFB                                      | 93.3   | 75.2-136 |      | %REC  | 5  | 8/24/2011 4:17:31 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.24     |      | mg/Kg | 5  | 8/24/2011 4:17:31 PM |
| Toluene  | ND     | 0.24     |      | mg/Kg | 5  | 8/24/2011 4:17:31 PM |
| Ethylbenzene                                   | ND     | 0.24     |      | mg/Kg | 5  | 8/24/2011 4:17:31 PM |
| Xylenes, Total                                 | ND     | 0.47     |      | mg/Kg | 5  | 8/24/2011 4:17:31 PM |
| Surr: 4-Bromofluorobenzene                     | 93.8   | 80-120   |      | %REC  | 5  | 8/24/2011 4:17:31 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: 26-Aug-11  
Analytical Report

|                                     |  |
|-------------------------------------|--|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-31 (37')         |
| <b>Lab Order:</b> 1108777           | <b>Collection Date:</b> 8/15/2011 5:30:00 PM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/18/2011              |
| <b>Lab ID:</b> 1108777-04           | <b>Matrix:</b> SOIL                          |

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 9.6      |      | mg/Kg | 1  | 8/22/2011 2:03:45 PM |
| Surr: DNOP                                     | 85.7   | 73.4-123 |      | %REC  | 1  | 8/22/2011 2:03:45 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 4.8      |      | mg/Kg | 1  | 8/24/2011 4:46:28 PM |
| Surr: BFB                                      | 93.6   | 75.2-136 |      | %REC  | 1  | 8/24/2011 4:46:28 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.048    |      | mg/Kg | 1  | 8/24/2011 4:46:28 PM |
| Toluene  | ND     | 0.048    |      | mg/Kg | 1  | 8/24/2011 4:46:28 PM |
| Ethylbenzene                                   | ND     | 0.048    |      | mg/Kg | 1  | 8/24/2011 4:46:28 PM |
| Xylenes, Total                                 | ND     | 0.097    |      | mg/Kg | 1  | 8/24/2011 4:46:28 PM |
| Surr: 4-Bromofluorobenzene                     | 97.2   | 80-120   |      | %REC  | 1  | 8/24/2011 4:46:28 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: 26-Aug-11  
Analytical Report

CLIENT: Southwest Geoscience      Client Sample ID: MW-32 (17')  
 Lab Order: 1108777      Collection Date: 8/16/2011 10:00:00 AM  
 Project: Lindrith CS      Date Received: 8/18/2011  
 Lab ID: 1108777-05      Matrix: SOIL

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | 19     | 10       |      | mg/Kg | 1  | 8/22/2011 2:38:37 PM |
| Surr: DNOP                                     | 83.4   | 73.4-123 |      | %REC  | 1  | 8/22/2011 2:38:37 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | 640    | 50       |      | mg/Kg | 10 | 8/22/2011 6:07:47 PM |
| Surr: BFB                                      | 191    | 75.2-136 | S    | %REC  | 10 | 8/22/2011 6:07:47 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.50     |      | mg/Kg | 10 | 8/22/2011 6:07:47 PM |
| Toluene  | 1.2    | 0.50     |      | mg/Kg | 10 | 8/22/2011 6:07:47 PM |
| Ethylbenzene                                   | 2.4    | 0.50     |      | mg/Kg | 10 | 8/22/2011 6:07:47 PM |
| Xylenes, Total                                 | 16     | 0.99     |      | mg/Kg | 10 | 8/22/2011 6:07:47 PM |
| Surr: 4-Bromofluorobenzene                     | 103    | 90.3-115 |      | %REC  | 10 | 8/22/2011 6:07:47 PM |

**Qualifiers:**

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

# Hall Environmental Analysis Laboratory, Inc.

Date: 26-Aug-11  
Analytical Report

|                                     |   |
|-------------------------------------|---|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-32 (35')          |
| <b>Lab Order:</b> 1108777           | <b>Collection Date:</b> 8/16/2011 11:10:00 AM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/18/2011               |
| <b>Lab ID:</b> 1108777-06           | <b>Matrix:</b> SOIL                           |

| Analyses                                       | Result | PQL      | Qual | Units | DF  | Date Analyzed        |
|--|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: JB          |
| Diesel Range Organics (DRO)                    | 250    | 9.7      |      | mg/Kg | 1   | 8/22/2011 3:48:40 PM |
| Surr: DNOP                                     | 94.5   | 73.4-123 |      | %REC  | 1   | 8/22/2011 3:48:40 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |     | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | 11000  | 470      |      | mg/Kg | 100 | 8/24/2011 5:15:25 PM |
| Surr: BFB                                      | 167    | 75.2-136 | S    | %REC  | 100 | 8/24/2011 5:15:25 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |     | Analyst: RAA         |
| Benzene  | 9.7    | 0.47     |      | mg/Kg | 10  | 8/22/2011 6:36:38 PM |
| Toluene  | 34     | 0.47     |      | mg/Kg | 10  | 8/22/2011 6:36:38 PM |
| Ethylbenzene                                   | 33     | 0.47     |      | mg/Kg | 10  | 8/22/2011 6:36:38 PM |
| Xylenes, Total                                 | 190    | 9.4      |      | mg/Kg | 100 | 8/24/2011 5:15:25 PM |
| Surr: 4-Bromofluorobenzene                     | 244    | 90.3-115 | S    | %REC  | 10  | 8/22/2011 6:36:38 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: 26-Aug-11  
Analytical Report

CLIENT: Southwest Geoscience      Client Sample ID: MW-33 (35')  
 Lab Order: 1108777      Collection Date: 8/16/2011 3:20:00 PM  
 Project: Lindrith CS      Date Received: 8/18/2011  
 Lab ID: 1108777-07      Matrix: SOIL

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 9.8      |      | mg/Kg | 1  | 8/22/2011 4:23:20 PM |
| Surr: DNOP                                     | 79.5   | 73.4-123 |      | %REC  | 1  | 8/22/2011 4:23:20 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 4.8      |      | mg/Kg | 1  | 8/24/2011 6:13:11 PM |
| Surr: BFB                                      | 93.6   | 75.2-136 |      | %REC  | 1  | 8/24/2011 6:13:11 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.048    |      | mg/Kg | 1  | 8/24/2011 6:13:11 PM |
| Toluene  | ND     | 0.048    |      | mg/Kg | 1  | 8/24/2011 6:13:11 PM |
| Ethylbenzene                                   | ND     | 0.048    |      | mg/Kg | 1  | 8/24/2011 6:13:11 PM |
| Xylenes, Total                                 | ND     | 0.097    |      | mg/Kg | 1  | 8/24/2011 6:13:11 PM |
| Surr: 4-Bromofluorobenzene                     | 96.8   | 80-120   |      | %REC  | 1  | 8/24/2011 6:13:11 PM |

**Qualifiers:**

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

# Hall Environmental Analysis Laboratory, Inc.

Date: 26-Aug-11  
Analytical Report

|                                     |   |
|-------------------------------------|---|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-34 (30')          |
| <b>Lab Order:</b> 1108777           | <b>Collection Date:</b> 8/17/2011 10:40:00 AM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/18/2011               |
| <b>Lab ID:</b> 1108777-08           | <b>Matrix:</b> SOIL                           |

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 8/22/2011 4:57:59 PM |
| Surr: DNOP                                     | 85.5   | 73.4-123 |      | %REC  | 1  | 8/22/2011 4:57:59 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 4.8      |      | mg/Kg | 1  | 8/24/2011 6:42:04 PM |
| Surr: BFB                                      | 93.5   | 75.2-136 |      | %REC  | 1  | 8/24/2011 6:42:04 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.048    |      | mg/Kg | 1  | 8/24/2011 6:42:04 PM |
| Toluene  | ND     | 0.048    |      | mg/Kg | 1  | 8/24/2011 6:42:04 PM |
| Ethylbenzene                                   | ND     | 0.048    |      | mg/Kg | 1  | 8/24/2011 6:42:04 PM |
| Xylenes, Total                                 | ND     | 0.096    |      | mg/Kg | 1  | 8/24/2011 6:42:04 PM |
| Surr: 4-Bromofluorobenzene                     | 98.0   | 80-120   |      | %REC  | 1  | 8/24/2011 6:42:04 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: 26-Aug-11  
Analytical Report

|                                     |  |
|-------------------------------------|--|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-35 (30')         |
| <b>Lab Order:</b> 1108777           | <b>Collection Date:</b> 8/17/2011 2:50:00 PM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/18/2011              |
| <b>Lab ID:</b> 1108777-09           | <b>Matrix:</b> SOIL                          |

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 9.9      |      | mg/Kg | 1  | 8/22/2011 5:32:37 PM |
| Surr: DNOP                                     | 87.6   | 73.4-123 |      | %REC  | 1  | 8/22/2011 5:32:37 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 4.9      |      | mg/Kg | 1  | 8/22/2011 8:03:24 PM |
| Surr: BFB                                      | 93.9   | 75.2-136 |      | %REC  | 1  | 8/22/2011 8:03:24 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.049    |      | mg/Kg | 1  | 8/22/2011 8:03:24 PM |
| Toluene  | ND     | 0.049    |      | mg/Kg | 1  | 8/22/2011 8:03:24 PM |
| Ethylbenzene                                   | ND     | 0.049    |      | mg/Kg | 1  | 8/22/2011 8:03:24 PM |
| Xylenes, Total                                 | ND     | 0.098    |      | mg/Kg | 1  | 8/22/2011 8:03:24 PM |
| Surr: 4-Bromofluorobenzene                     | 96.1   | 90.3-115 |      | %REC  | 1  | 8/22/2011 8:03:24 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: 26-Aug-11  
Analytical Report

|                                     |  |
|-------------------------------------|--|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-35 (36')         |
| <b>Lab Order:</b> 1108777           | <b>Collection Date:</b> 8/17/2011 3:10:00 PM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/18/2011              |
| <b>Lab ID:</b> 1108777-10           | <b>Matrix:</b> SOIL                          |

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 8/22/2011 6:07:14 PM |
| Surr: DNOP                                     | 90.0   | 73.4-123 |      | %REC  | 1  | 8/22/2011 6:07:14 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 4.8      |      | mg/Kg | 1  | 8/22/2011 8:32:16 PM |
| Surr: BFB                                      | 93.1   | 75.2-136 |      | %REC  | 1  | 8/22/2011 8:32:16 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.048    |      | mg/Kg | 1  | 8/22/2011 8:32:16 PM |
| Toluene  | ND     | 0.048    |      | mg/Kg | 1  | 8/22/2011 8:32:16 PM |
| Ethylbenzene                                   | ND     | 0.048    |      | mg/Kg | 1  | 8/22/2011 8:32:16 PM |
| Xylenes, Total                                 | ND     | 0.096    |      | mg/Kg | 1  | 8/22/2011 8:32:16 PM |
| Surr: 4-Bromofluorobenzene                     | 96.3   | 90.3-115 |      | %REC  | 1  | 8/22/2011 8:32:16 PM |

**Qualifiers:**

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

## QA/QC SUMMARY REPORT

**Client:** Southwest Geoscience  
**Project:** Lindrith CS

**Work Order:** 1108777

| Analyte | Result | Units | PQL | SPK Va | SPK ref | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|--------|---------|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|--------|---------|------|----------|-----------|------|----------|------|

**Method:** EPA Method 8015B: Diesel Range Organics

**Sample ID:** MB-28127 *MBLK* Batch ID: 28127 Analysis Date: 8/22/2011 10:01:41 AM

Diesel Range Organics (DRO) ND mg/Kg 10

Motor Oil Range Organics (MRO) ND mg/Kg 50

**Sample ID:** LCS-28127 *LCS* Batch ID: 28127 Analysis Date: 8/22/2011 10:36:05 AM

Diesel Range Organics (DRO) 40.39 mg/Kg 10 50 0 80.8 66.7 119

**Sample ID:** LCSD-28127 *LCSD* Batch ID: 28127 Analysis Date: 8/22/2011 11:10:31 AM

Diesel Range Organics (DRO) 41.07 mg/Kg 10 50 0 82.1 66.7 119 1.67 18.9

**Method:** EPA Method 8015B: Gasoline Range

**Sample ID:** MB-28120 *MBLK* Batch ID: 28120 Analysis Date: 8/22/2011 12:06:48 PM

Gasoline Range Organics (GRO) ND mg/Kg 5.0

**Sample ID:** LCS-28120 *LCS* Batch ID: 28120 Analysis Date: 8/22/2011 10:27:33 PM

Gasoline Range Organics (GRO) 28.59 mg/Kg 5.0 25 0 114 86.4 132

**Method:** EPA Method 8021B: Volatiles

**Sample ID:** MB-28120 *MBLK* Batch ID: 28120 Analysis Date: 8/22/2011 12:06:48 PM

Benzene ND mg/Kg 0.050

Toluene ND mg/Kg 0.050

Ethylbenzene ND mg/Kg 0.050

Xylenes, Total ND mg/Kg 0.10

**Sample ID:** LCS-28120 *LCS* Batch ID: 28120 Analysis Date: 8/22/2011 10:56:21 PM

Benzene 0.9498 mg/Kg 0.050 1 0 95.0 83.3 107

Toluene 0.9948 mg/Kg 0.050 1 0 99.5 74.3 115

Ethylbenzene 0.9945 mg/Kg 0.050 1 0 99.4 80.9 122

Xylenes, Total 3.101 mg/Kg 0.10 3 0 103 85.2 123

**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               |

CHAIN OF CUSTODY RECORD

ANALYSIS REQUESTED  
 TPH GBD/RO 8021  
 X BTX 8021

Lab use only  
 Due Date:

Temp. of coolers when received (C°):

1 2 3 4 5

Page 1 of 1

Laboratory: Hall  
 Address: Albuquerque  
 Contact: Andy Freeman  
 Phone: 505 345 3975  
 POISO #:

Project Name: Lindlith CS  
 Sampler's Name: Ryle Summers  
 Project Manager: R. Summers  
 Office Location: Aztec

| Matrix | Date    | Time | C o m p | G r a b | Identifying Marks of Sample(s) | No/Type of Containers |     |        | Lab Sample ID (Lab Use Only) |
|--------|---------|------|---------|---------|--------------------------------|-----------------------|-----|--------|------------------------------|
|        |         |      |         |         |                                | 500 ml                | 1 L | 250 ml |                              |
| S      | 8/11/11 | 1300 | X       |         | MW-30 (12')                    | 11                    | 12  |        | 1108777-1                    |
|        |         | 1400 |         |         | MW-30 (35')                    | 34                    | 35  |        | -2                           |
|        |         | 1700 |         |         | MW-31 (16')                    | 15                    | 16  |        | -3                           |
|        |         | 1730 |         |         | MW-31 (37')                    | 36                    | 37  |        | -4                           |
|        | 8/16/11 | 1000 |         |         | MW-32 (17')                    | 16                    | 17  |        | -5                           |
|        |         | 1110 |         |         | MW-32 (35')                    | 34                    | 35  |        | -6                           |
|        | 8/16/11 | 1520 |         |         | MW-33 (35')                    | 34                    | 35  |        | -7                           |
|        | 8/17/11 | 1040 |         |         | MW-34 (30')                    | 29                    | 30  |        | -8                           |
|        |         | 1450 |         |         | MW-35 (30')                    | 29                    | 30  |        | -9                           |
|        |         | 1510 |         |         | MW-35 (36')                    | 35                    | 36  |        | -10                          |

Turn around time:  Normal  25% Rush  50% Rush  100% Rush

Relinquished by (Signature): [Signature] Date: 8/11/11 Time: 1846 Received by (Signature): [Signature] Date: 8/11/11 Time: 1846

Relinquished by (Signature): [Signature] Date: 8/11/11 Time: 1015 Received by (Signature): [Signature] Date: 8/11/11 Time: 1015

Relinquished by (Signature): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by (Signature): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by (Signature): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by (Signature): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

NOTES:

Matrix: WW - Wastewater W - Water S - Soil SD - Solid L - Liquid  
 Container: VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter A - Air Bag 250 ml - Glass wide mouth P/O - Plastic or other  
 SL - sludge O - Oil

SOUTHWEST GEOSCIENCE • 2351 W. Northwest Hwy., Suite 332 • Dallas, Texas 75220 • Office: 214-350-5469 • Fax 214-350-2914



COVER LETTER

Friday, September 09, 2011

Kyle Summers  
Southwest Geoscience  
606 S. Rio Grande Unit A  
Aztec, NM 87410

TEL: (903) 821-5603

FAX

RE: Lindrith CS

Order No.: 1108B44

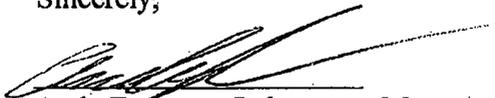
Dear Kyle Summers:

Hall Environmental Analysis Laboratory, Inc. received 11 sample(s) on 8/25/2011 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](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

# Hall Environmental Analysis Laboratory, Inc.

Date: 09-Sep-11  
Analytical Report

|                                     |   |
|-------------------------------------|---|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-36 (30')          |
| <b>Lab Order:</b> 1108B44           | <b>Collection Date:</b> 8/18/2011 12:30:00 PM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/25/2011               |
| <b>Lab ID:</b> 1108B44-01           | <b>Matrix:</b> SOIL                           |

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 9/2/2011 7:29:15 AM  |
| Surr: DNOP                                     | 119    | 73.4-123 |      | %REC  | 1  | 9/2/2011 7:29:15 AM  |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | 10     | 4.9      |      | mg/Kg | 1  | 8/31/2011 4:10:20 PM |
| Surr: BFB                                      | 155    | 75.2-136 | S    | %REC  | 1  | 8/31/2011 4:10:20 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.049    |      | mg/Kg | 1  | 8/31/2011 4:10:20 PM |
| Toluene  | ND     | 0.049    |      | mg/Kg | 1  | 8/31/2011 4:10:20 PM |
| Ethylbenzene                                   | ND     | 0.049    |      | mg/Kg | 1  | 8/31/2011 4:10:20 PM |
| Xylenes, Total                                 | ND     | 0.098    |      | mg/Kg | 1  | 8/31/2011 4:10:20 PM |
| Surr: 4-Bromofluorobenzene                     | 99.1   | 80-120   |      | %REC  | 1  | 8/31/2011 4:10:20 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-Sep-11  
Analytical Report

CLIENT: Southwest Geoscience Client Sample ID: MW-36 (35')  
 Lab Order: 1108B44 Collection Date: 8/18/2011 12:50:00 PM  
 Project: Lindrith CS Date Received: 8/25/2011  
 Lab ID: 1108B44-02 Matrix: SOIL

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 9/1/2011 4:15:16 PM  |
| Surr: DNOP                                     | 110    | 73.4-123 |      | %REC  | 1  | 9/1/2011 4:15:16 PM  |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 4.7      |      | mg/Kg | 1  | 8/31/2011 2:14:33 PM |
| Surr: BFB                                      | 94.8   | 75.2-136 |      | %REC  | 1  | 8/31/2011 2:14:33 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.047    |      | mg/Kg | 1  | 8/31/2011 2:14:33 PM |
| Toluene  | ND     | 0.047    |      | mg/Kg | 1  | 8/31/2011 2:14:33 PM |
| Ethylbenzene                                   | ND     | 0.047    |      | mg/Kg | 1  | 8/31/2011 2:14:33 PM |
| Xylenes, Total                                 | ND     | 0.095    |      | mg/Kg | 1  | 8/31/2011 2:14:33 PM |
| Surr: 4-Bromofluorobenzene                     | 96.1   | 80-120   |      | %REC  | 1  | 8/31/2011 2:14:33 PM |

**Qualifiers:**

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

Hall Environmental Analysis Laboratory, Inc.

Date: 09-Sep-11  
Analytical Report

CLIENT: Southwest Geoscience Client Sample ID: MW-37 (26')  
 Lab Order: 1108B44 Collection Date: 8/19/2011 10:30:00 AM  
 Project: Lindrith CS Date Received: 8/25/2011  
 Lab ID: 1108B44-03 Matrix: SOIL

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | 27     | 9.9      |      | mg/Kg | 1  | 9/1/2011 4:50:11 PM  |
| Surr: DNOP                                     | 108    | 73.4-123 |      | %REC  | 1  | 9/1/2011 4:50:11 PM  |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 4.9      |      | mg/Kg | 1  | 8/31/2011 4:39:13 PM |
| Surr: BFB                                      | 130    | 75.2-136 |      | %REC  | 1  | 8/31/2011 4:39:13 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.049    |      | mg/Kg | 1  | 8/31/2011 4:39:13 PM |
| Toluene  | ND     | 0.049    |      | mg/Kg | 1  | 8/31/2011 4:39:13 PM |
| Ethylbenzene                                   | ND     | 0.049    |      | mg/Kg | 1  | 8/31/2011 4:39:13 PM |
| Xylenes, Total                                 | ND     | 0.097    |      | mg/Kg | 1  | 8/31/2011 4:39:13 PM |
| Surr: 4-Bromofluorobenzene                     | 99.2   | 80-120   |      | %REC  | 1  | 8/31/2011 4:39:13 PM |

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 09-Sep-11  
Analytical Report

CLIENT: Southwest Geoscience Client Sample ID: MW-37 (30')  
 Lab Order: 1108B44 Collection Date: 8/19/2011 11:00:00 AM  
 Project: Lindrith CS Date Received: 8/25/2011  
 Lab ID: 1108B44-04 Matrix: SOIL

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | 310    | 100      |      | mg/Kg | 10 | 9/2/2011 12:15:20 AM |
| Surr: DNOP                                     | 0      | 73.4-123 | S    | %REC  | 10 | 9/2/2011 12:15:20 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | 1400   | 97       |      | mg/Kg | 20 | 8/31/2011 3:12:31 PM |
| Surr: BFB                                      | 234    | 75.2-136 | S    | %REC  | 20 | 8/31/2011 3:12:31 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | 1.2    | 0.97     |      | mg/Kg | 20 | 8/31/2011 3:12:31 PM |
| Toluene  | 5.7    | 0.97     |      | mg/Kg | 20 | 8/31/2011 3:12:31 PM |
| Ethylbenzene                                   | 5.2    | 0.97     |      | mg/Kg | 20 | 8/31/2011 3:12:31 PM |
| Xylenes, Total                                 | 40     | 1.9      |      | mg/Kg | 20 | 8/31/2011 3:12:31 PM |
| Surr: 4-Bromofluorobenzene                     | 108    | 80-120   |      | %REC  | 20 | 8/31/2011 3:12:31 PM |

Qualifiers:

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

**Hall Environmental Analysis Laboratory, Inc.**

Date: 09-Sep-11  
Analytical Report

CLIENT: Southwest Geoscience Client Sample ID: MW-38 (34')  
 Lab Order: 1108B44 Collection Date: 8/19/2011 2:30:00 PM  
 Project: Lindrith CS Date Received: 8/25/2011  
 Lab ID: 1108B44-05 Matrix: SOIL

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 9/1/2011 5:24:51 PM  |
| Surr: DNOP                                     | 107    | 73.4-123 |      | %REC  | 1  | 9/1/2011 5:24:51 PM  |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 4.9      |      | mg/Kg | 1  | 8/31/2011 5:08:10 PM |
| Surr: BFB                                      | 99.8   | 75.2-136 |      | %REC  | 1  | 8/31/2011 5:08:10 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.049    |      | mg/Kg | 1  | 8/31/2011 5:08:10 PM |
| Toluene  | ND     | 0.049    |      | mg/Kg | 1  | 8/31/2011 5:08:10 PM |
| Ethylbenzene                                   | ND     | 0.049    |      | mg/Kg | 1  | 8/31/2011 5:08:10 PM |
| Xylenes, Total                                 | ND     | 0.098    |      | mg/Kg | 1  | 8/31/2011 5:08:10 PM |
| Surr: 4-Bromofluorobenzene                     | 96.9   | 80-120   |      | %REC  | 1  | 8/31/2011 5:08:10 PM |

**Qualifiers:**

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

Hall Environmental Analysis Laboratory, Inc.

Date: 09-Sep-11  
Analytical Report

CLIENT: Southwest Geoscience Client Sample ID: MW-38 (28")  
 Lab Order: 1108B44 Collection Date: 8/19/2011 12:50:00 PM  
 Project: Lindrith CS Date Received: 8/25/2011  
 Lab ID: 1108B44-06 Matrix: SOIL

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 9.8      |      | mg/Kg | 1  | 9/1/2011 5:59:44 PM  |
| Surr: DNOP                                     | 108    | 73.4-123 |      | %REC  | 1  | 9/1/2011 5:59:44 PM  |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 4.8      |      | mg/Kg | 1  | 8/31/2011 5:37:03 PM |
| Surr: BFB                                      | 95.2   | 75.2-136 |      | %REC  | 1  | 8/31/2011 5:37:03 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.048    |      | mg/Kg | 1  | 8/31/2011 5:37:03 PM |
| Toluene  | ND     | 0.048    |      | mg/Kg | 1  | 8/31/2011 5:37:03 PM |
| Ethylbenzene                                   | ND     | 0.048    |      | mg/Kg | 1  | 8/31/2011 5:37:03 PM |
| Xylenes, Total                                 | ND     | 0.096    |      | mg/Kg | 1  | 8/31/2011 5:37:03 PM |
| Surr: 4-Bromofluorobenzene                     | 96.0   | 80-120   |      | %REC  | 1  | 8/31/2011 5:37:03 PM |

Qualifiers:

\* Value exceeds Maximum Contaminant Level  
 E Estimated value  
 J Analyte detected below quantitation limits  
 NC Non-Chlorinated  
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 MCL Maximum Contaminant Level  
 ND Not Detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 09-Sep-11  
Analytical Report

CLIENT: Southwest Geoscience      Client Sample ID: MW-39 (31')  
 Lab Order: 1108B44      Collection Date: 8/22/2011 1:00:00 PM  
 Project: Lindrith CS      Date Received: 8/25/2011  
 Lab ID: 1108B44-07      Matrix: SOIL

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | 990    | 99       |      | mg/Kg | 10 | 9/2/2011 12:49:28 AM |
| Surr: DNOP                                     | 0      | 73.4-123 | S    | %REC  | 10 | 9/2/2011 12:49:28 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | 7600   | 230      |      | mg/Kg | 50 | 8/31/2011 6:05:52 PM |
| Surr: BFB                                      | 333    | 75.2-136 | S    | %REC  | 50 | 8/31/2011 6:05:52 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | 11     | 2.3      |      | mg/Kg | 50 | 8/31/2011 6:05:52 PM |
| Toluene  | 18     | 2.3      |      | mg/Kg | 50 | 8/31/2011 6:05:52 PM |
| Ethylbenzene                                   | 35     | 2.3      |      | mg/Kg | 50 | 8/31/2011 6:05:52 PM |
| Xylenes, Total                                 | 230    | 4.7      |      | mg/Kg | 50 | 8/31/2011 6:05:52 PM |
| Surr: 4-Bromofluorobenzene                     | 116    | 80-120   |      | %REC  | 50 | 8/31/2011 6:05:52 PM |

Qualifiers:

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

# Hall Environmental Analysis Laboratory, Inc.

Date: 09-Sep-11

Analytical Report

|                                     |  |
|-------------------------------------|--|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-40 (32')         |
| <b>Lab Order:</b> 1108B44           | <b>Collection Date:</b> 8/23/2011 9:20:00 AM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/25/2011              |
| <b>Lab ID:</b> 1108B44-08           | <b>Matrix:</b> SOIL                          |

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 9.8      |      | mg/Kg | 1  | 9/1/2011 6:34:22 PM  |
| Surr: DNOP                                     | 111    | 73.4-123 |      | %REC  | 1  | 9/1/2011 6:34:22 PM  |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 4.8      |      | mg/Kg | 1  | 8/31/2011 7:03:45 PM |
| Surr: BFB                                      | 98.5   | 75.2-136 |      | %REC  | 1  | 8/31/2011 7:03:45 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.048    |      | mg/Kg | 1  | 8/31/2011 7:03:45 PM |
| Toluene  | ND     | 0.048    |      | mg/Kg | 1  | 8/31/2011 7:03:45 PM |
| Ethylbenzene                                   | ND     | 0.048    |      | mg/Kg | 1  | 8/31/2011 7:03:45 PM |
| Xylenes, Total                                 | ND     | 0.096    |      | mg/Kg | 1  | 8/31/2011 7:03:45 PM |
| Surr: 4-Bromofluorobenzene                     | 99.0   | 80-120   |      | %REC  | 1  | 8/31/2011 7:03:45 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-Sep-11  
Analytical Report

CLIENT: Southwest Geoscience      Client Sample ID: MW-40 (35')  
 Lab Order: 1108B44      Collection Date: 8/23/2011 9:25:00 AM  
 Project: Lindrith CS      Date Received: 8/25/2011  
 Lab ID: 1108B44-09      Matrix: SOIL

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|--|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 9/1/2011 7:08:45 PM  |
| Surr: DNOP                                     | 108    | 73.4-123 |      | %REC  | 1  | 9/1/2011 7:08:45 PM  |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)                  | ND     | 4.7      |      | mg/Kg | 1  | 9/1/2011 12:49:54 AM |
| Surr: BFB                                      | 96.2   | 75.2-136 |      | %REC  | 1  | 9/1/2011 12:49:54 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA         |
| Benzene  | ND     | 0.047    |      | mg/Kg | 1  | 9/1/2011 12:49:54 AM |
| Toluene  | ND     | 0.047    |      | mg/Kg | 1  | 9/1/2011 12:49:54 AM |
| Ethylbenzene                                   | ND     | 0.047    |      | mg/Kg | 1  | 9/1/2011 12:49:54 AM |
| Xylenes, Total                                 | ND     | 0.093    |      | mg/Kg | 1  | 9/1/2011 12:49:54 AM |
| Surr: 4-Bromofluorobenzene                     | 98.0   | 80-120   |      | %REC  | 1  | 9/1/2011 12:49:54 AM |

Qualifiers:

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

**Hall Environmental Analysis Laboratory, Inc.**

Date: 09-Sep-11  
Analytical Report

|                                     |   |
|-------------------------------------|---|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-41 (30')          |
| <b>Lab Order:</b> 1108B44           | <b>Collection Date:</b> 8/23/2011 12:20:00 PM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/25/2011               |
| <b>Lab ID:</b> 1108B44-10           | <b>Matrix:</b> SOIL                           |

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|--|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB         |
| Diesel Range Organics (DRO)                    | ND     | 9.9      |      | mg/Kg | 1  | 9/1/2011 8:17:00 PM |
| Surr: DNOP                                     | 108    | 73.4-123 |      | %REC  | 1  | 9/1/2011 8:17:00 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA        |
| Gasoline Range Organics (GRO)                  | ND     | 4.8      |      | mg/Kg | 1  | 9/1/2011 1:18:44 AM |
| Surr: BFB                                      | 94.9   | 75.2-136 |      | %REC  | 1  | 9/1/2011 1:18:44 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA        |
| Benzene  | ND     | 0.048    |      | mg/Kg | 1  | 9/1/2011 1:18:44 AM |
| Toluene  | ND     | 0.048    |      | mg/Kg | 1  | 9/1/2011 1:18:44 AM |
| Ethylbenzene                                   | ND     | 0.048    |      | mg/Kg | 1  | 9/1/2011 1:18:44 AM |
| Xylenes, Total                                 | ND     | 0.095    |      | mg/Kg | 1  | 9/1/2011 1:18:44 AM |
| Surr: 4-Bromofluorobenzene                     | 97.6   | 80-120   |      | %REC  | 1  | 9/1/2011 1:18:44 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-Sep-11  
Analytical Report

|                                     |  |
|-------------------------------------|--|
| <b>CLIENT:</b> Southwest Geoscience | <b>Client Sample ID:</b> MW-42 (27')         |
| <b>Lab Order:</b> 1108B44           | <b>Collection Date:</b> 8/23/2011 2:45:00 PM |
| <b>Project:</b> Lindrith CS         | <b>Date Received:</b> 8/25/2011              |
| <b>Lab ID:</b> 1108B44-11           | <b>Matrix:</b> SOIL                          |

| Analyses                                       | Result | PQL      | Qual | Units | DF | Date Analyzed       |
|--|--------|----------|------|-------|----|---------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JB         |
| Diesel Range Organics (DRO)                    | 12     | 10       |      | mg/Kg | 1  | 9/1/2011 8:51:21 PM |
| Surr: DNOP                                     | 119    | 73.4-123 |      | %REC  | 1  | 9/1/2011 8:51:21 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b>        |        |          |      |       |    | Analyst: RAA        |
| Gasoline Range Organics (GRO)                  | 15     | 4.8      |      | mg/Kg | 1  | 9/1/2011 1:47:35 AM |
| Surr: BFB                                      | 134    | 75.2-136 |      | %REC  | 1  | 9/1/2011 1:47:35 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    | Analyst: RAA        |
| Benzene  | ND     | 0.048    |      | mg/Kg | 1  | 9/1/2011 1:47:35 AM |
| Toluene  | ND     | 0.048    |      | mg/Kg | 1  | 9/1/2011 1:47:35 AM |
| Ethylbenzene                                   | 0.058  | 0.048    |      | mg/Kg | 1  | 9/1/2011 1:47:35 AM |
| Xylenes, Total                                 | 0.85   | 0.096    |      | mg/Kg | 1  | 9/1/2011 1:47:35 AM |
| Surr: 4-Bromofluorobenzene                     | 103    | 80-120   |      | %REC  | 1  | 9/1/2011 1:47:35 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    |

## QA/QC SUMMARY REPORT

Client: Southwest Geoscience  
Project: Lindrith CS

Work Order: 1108B44

| Analyte  | Result | Units | PQL   | SPK Va | SPK ref | %Rec | LowLimit | HighLimit | %RPD   | RPDLimit | Qual |
|--|--------|-------|-------|--------|---------|------|----------|-----------|--------|----------|------|
| <b>Method: EPA Method 8015B: Diesel Range Organics</b> |        |       |       |        |         |      |          |           |        |          |      |
| Sample ID: MB-28267                                    |        | MBLK  |       |        |         |      |          |           |        |          |      |
| Diesel Range Organics (DRO)                            | ND     | mg/Kg | 10    |        |         |      |          |           |        |          |      |
| Batch ID: 28267  |        |       |       |        |         |      |          |           |        |          |      |
| Sample ID: LCS-28267                                   |        | LCS   |       |        |         |      |          |           |        |          |      |
| Diesel Range Organics (DRO)                            | 44.32  | mg/Kg | 10    | 50     | 0       | 88.6 | 66.7     | 119       |        |          |      |
| Batch ID: 28267  |        |       |       |        |         |      |          |           |        |          |      |
| Sample ID: LCSD-28267                                  |        | LCSD  |       |        |         |      |          |           |        |          |      |
| Diesel Range Organics (DRO)                            | 45.97  | mg/Kg | 10    | 50     | 0       | 91.9 | 66.7     | 119       | 3.66   | 18.9     |      |
| Batch ID: 28267  |        |       |       |        |         |      |          |           |        |          |      |
| <b>Method: EPA Method 8015B: Gasoline Range</b>        |        |       |       |        |         |      |          |           |        |          |      |
| Sample ID: MB-28256                                    |        | MBLK  |       |        |         |      |          |           |        |          |      |
| Gasoline Range Organics (GRO)                          | ND     | mg/Kg | 5.0   |        |         |      |          |           |        |          |      |
| Batch ID: 28256  |        |       |       |        |         |      |          |           |        |          |      |
| Sample ID: LCS-28256                                   |        | LCS   |       |        |         |      |          |           |        |          |      |
| Gasoline Range Organics (GRO)                          | 25.62  | mg/Kg | 5.0   | 25     | 0       | 102  | 86.4     | 132       |        |          |      |
| Batch ID: 28256  |        |       |       |        |         |      |          |           |        |          |      |
| <b>Method: EPA Method 8021B: Volatiles</b>             |        |       |       |        |         |      |          |           |        |          |      |
| Sample ID: 1108B44-01AMSD                              |        | MSD   |       |        |         |      |          |           |        |          |      |
| Benzene  | 0.9428 | mg/Kg | 0.047 | 0.939  | 0.0148  | 98.8 | 67.2     | 113       | 2.33   | 14.3     |      |
| Toluene  | 1.017  | mg/Kg | 0.047 | 0.939  | 0.0122  | 107  | 62.1     | 116       | 2.14   | 15.9     |      |
| Ethylbenzene   | 1.067  | mg/Kg | 0.047 | 0.939  | 0       | 114  | 67.9     | 127       | 0.654  | 14.4     |      |
| Xylenes, Total   | 3.265  | mg/Kg | 0.094 | 2.817  | 0.0719  | 113  | 60.6     | 134       | 0.0631 | 12.6     |      |
| Batch ID: 28256  |        |       |       |        |         |      |          |           |        |          |      |
| Sample ID: MB-28256                                    |        | MBLK  |       |        |         |      |          |           |        |          |      |
| Benzene  | ND     | mg/Kg | 0.050 |        |         |      |          |           |        |          |      |
| Toluene  | ND     | mg/Kg | 0.050 |        |         |      |          |           |        |          |      |
| Ethylbenzene   | ND     | mg/Kg | 0.050 |        |         |      |          |           |        |          |      |
| Xylenes, Total   | ND     | mg/Kg | 0.10  |        |         |      |          |           |        |          |      |
| Batch ID: 28256  |        |       |       |        |         |      |          |           |        |          |      |
| Sample ID: LCS-28256                                   |        | LCS   |       |        |         |      |          |           |        |          |      |
| Benzene  | 0.9598 | mg/Kg | 0.050 | 1      | 0.0156  | 94.4 | 83.3     | 107       |        |          |      |
| Toluene  | 0.9828 | mg/Kg | 0.050 | 1      | 0       | 98.3 | 74.3     | 115       |        |          |      |
| Ethylbenzene   | 0.9796 | mg/Kg | 0.050 | 1      | 0       | 98.0 | 80.9     | 122       |        |          |      |
| Xylenes, Total   | 2.975  | mg/Kg | 0.10  | 3      | 0       | 99.2 | 85.2     | 123       |        |          |      |
| Batch ID: 28256  |        |       |       |        |         |      |          |           |        |          |      |
| Sample ID: 1108B44-01AMS                               |        | MS    |       |        |         |      |          |           |        |          |      |
| Benzene  | 0.9650 | mg/Kg | 0.048 | 0.963  | 0.0148  | 98.7 | 67.2     | 113       |        |          |      |
| Toluene  | 1.039  | mg/Kg | 0.048 | 0.963  | 0.0122  | 107  | 62.1     | 116       |        |          |      |
| Ethylbenzene   | 1.060  | mg/Kg | 0.048 | 0.963  | 0       | 110  | 67.9     | 127       |        |          |      |
| Xylenes, Total   | 3.263  | mg/Kg | 0.096 | 2.887  | 0.0719  | 111  | 60.6     | 134       |        |          |      |
| Batch ID: 28256  |        |       |       |        |         |      |          |           |        |          |      |

## 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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name SOUTHWEST GEOSCIENCE

Date Received:

8/25/11  
~~8/29/2011~~

Work Order Number 1108B44

Received by: AMG

Checklist completed by:

*[Signature]*  
Signature

8/25/11  
Date

Sample ID labels checked by:

*[Signature]*  
Initials

Matrix:

Carrier name: Greyhound

- 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? 3.7° <6° C Acceptable  
If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

CHAIN OF CUSTODY RECORD

**Southwest GEOSCIENCE**  
Environmental & Hydrogeologic Consultants

Office Location: Astec

Project Manager: Mc. Summers

Laboratory: Hall

Address: Albuquerque

Contact: Andy Freeman

Phone: 505 345 3975

PO/SO #: \_\_\_\_\_

Temp. of coolers when received (C°): 37

Page 1 of 3

| Matrix | Date    | Time | Project Name   | No/Type of Containers |   |   |   | Identifying Marks of Sample(s) | Sign | Depth | Depth | VOA | AG 1L | 250 ml | P/O       | Lab Sample ID (Lab Use Only) |
|--------|---------|------|----------------|-----------------------|---|---|---|--------------------------------|------|-------|-------|-----|-------|--------|-----------|------------------------------|
|        |         |      |                | C                     | G | I | a |                                |      |       |       |     |       |        |           |                              |
| S      | 8/18/11 | 1230 | Lindrieth C.S. | X                     |   |   |   | 29                             | 30   |       |       |     |       |        | 1108B44-1 |                              |
|        | 8/18/11 | 1250 |                |                       |   |   |   | 34                             | 35   |       |       |     |       |        | 2         |                              |
|        | 8/19/11 | 1030 |                |                       |   |   |   | 25                             | 26   |       |       |     |       |        | 3         |                              |
|        |         | 1100 |                |                       |   |   |   | 29                             | 30   |       |       |     |       |        | 4         |                              |
|        |         | 1430 |                |                       |   |   |   | 33                             | 34   |       |       |     |       |        | 5         |                              |
|        |         | 1250 |                |                       |   |   |   | 27                             | 28   |       |       |     |       |        | 6         |                              |
|        | 8/22/11 | 1300 |                |                       |   |   |   | 30                             | 31   |       |       |     |       |        | 7         |                              |
|        | 8/23/11 | 0920 |                |                       |   |   |   | 31                             | 32   |       |       |     |       |        | 8         |                              |
|        |         | 0925 |                |                       |   |   |   | 34                             | 35   |       |       |     |       |        | 9         |                              |
|        |         | 1220 |                |                       |   |   |   | 29                             | 30   |       |       |     |       |        | 10        |                              |

ANALYSIS REQUESTED: TPH GRO/DD 8015  
X RTX 8021

Turn around time:  Normal  25% Rush  50% Rush  100% Rush

|   |                      |                   |   |                      |                    |
|---|----------------------|-------------------|---|----------------------|--------------------|
| Relinquished by (Signature): <u>[Signature]</u> | Date: <u>8/23/11</u> | Time: <u>1745</u> | Received by (Signature): <u>[Signature]</u> | Date: <u>8/23/11</u> | Time: <u>1745</u>  |
| Relinquished by (Signature): <u>[Signature]</u> | Date: <u>8/24/11</u> | Time: <u>1540</u> | Received by (Signature): <u>[Signature]</u> | Date: <u>8/25/11</u> | Time: <u>11:00</u> |
| Relinquished by (Signature): _____              | Date: _____          | Time: _____       | Received by (Signature): _____              | Date: _____          | Time: _____        |
| Relinquished by (Signature): _____              | Date: _____          | Time: _____       | Received by (Signature): _____              | Date: _____          | Time: _____        |

Matrix Container: WW - Wastewater VOA - 40 ml vial

W - Water AG - Amber / Or Glass 1 Liter

S - Soil SD - Solid

L - Liquid 250 ml - Glass wide mouth

A - Air Bag

C - Charcoal tube

P/O - Plastic or other

SL - sludge

O - Oil

NOTES: \_\_\_\_\_



COVER LETTER

Friday, October 07, 2011

Kyle Summers  
Southwest Geoscience  
606 S. Rio Grande Unit A  
Aztec, NM 87410

TEL: (903) 821-5603  
FAX

RE: Lindrith Compressor Station

Order No.: 1109901

Dear Kyle Summers:

Hall Environmental Analysis Laboratory, Inc. received 17 sample(s) on 9/23/2011 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](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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



# Hall Environmental Analysis Laboratory, Inc.

Date: 07-Oct-11

Analytical Report

CLIENT: Southwest Geoscience  
 Lab Order: 1109901  
 Project: Lindrith Compressor Station  
 Lab ID: 1109901-02

Client Sample ID: MW-31  
 Collection Date: 9/20/2011 1:35:00 PM  
 Date Received: 9/23/2011  
 Matrix: AQUEOUS

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|---|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB           |
| Diesel Range Organics (DRO)             | ND     | 1.0      |      | mg/L  | 1  | 9/28/2011 10:20:07 PM |
| Surr: DNOP                              | 131    | 81.1-147 |      | %REC  | 1  | 9/28/2011 10:20:07 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)           | 0.23   | 0.050    |      | mg/L  | 1  | 10/1/2011 3:17:18 PM  |
| Surr: BFB                               | 93.4   | 65.4-141 |      | %REC  | 1  | 10/1/2011 3:17:18 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA          |
| Benzene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 3:17:18 PM  |
| Toluene                                 | 1.2    | 1.0      |      | µg/L  | 1  | 10/1/2011 3:17:18 PM  |
| Ethylbenzene                            | 1.1    | 1.0      |      | µg/L  | 1  | 10/1/2011 3:17:18 PM  |
| Xylenes, Total                          | 7.4    | 2.0      |      | µg/L  | 1  | 10/1/2011 3:17:18 PM  |
| Surr: 4-Bromofluorobenzene              | 90.5   | 76.5-115 |      | %REC  | 1  | 10/1/2011 3:17:18 PM  |

**Qualifiers:**

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

**Hall Environmental Analysis Laboratory, Inc.**

Date: 07-Oct-11  
Analytical Report

|   |  |
|---|--|
| <b>CLIENT:</b> Southwest Geoscience         | <b>Client Sample ID:</b> MW-33               |
| <b>Lab Order:</b> 1109901                   | <b>Collection Date:</b> 9/20/2011 2:20:00 PM |
| <b>Project:</b> Lindrith Compressor Station | <b>Date Received:</b> 9/23/2011              |
| <b>Lab ID:</b> 1109901-03                   | <b>Matrix:</b> AQUEOUS                       |

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|---|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB           |
| Diesel Range Organics (DRO)             | ND     | 1.0      |      | mg/L  | 1  | 9/28/2011 10:54:48 PM |
| Surr: DNOP                              | 123    | 81.1-147 |      | %REC  | 1  | 9/28/2011 10:54:48 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)           | ND     | 0.050    |      | mg/L  | 1  | 10/1/2011 3:47:11 PM  |
| Surr: BFB                               | 91.7   | 65.4-141 |      | %REC  | 1  | 10/1/2011 3:47:11 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA          |
| Benzene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 3:47:11 PM  |
| Toluene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 3:47:11 PM  |
| Ethylbenzene                            | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 3:47:11 PM  |
| Xylenes, Total                          | ND     | 2.0      |      | µg/L  | 1  | 10/1/2011 3:47:11 PM  |
| Surr: 4-Bromofluorobenzene              | 89.9   | 76.5-115 |      | %REC  | 1  | 10/1/2011 3:47:11 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: 07-Oct-11  
Analytical Report

|   |  |
|---|--|
| <b>CLIENT:</b> Southwest Geoscience         | <b>Client Sample ID:</b> MW-8                |
| <b>Lab Order:</b> 1109901                   | <b>Collection Date:</b> 9/20/2011 2:55:00 PM |
| <b>Project:</b> Lindrith Compressor Station | <b>Date Received:</b> 9/23/2011              |
| <b>Lab ID:</b> 1109901-04                   | <b>Matrix:</b> AQUEOUS                       |

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|---|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB           |
| Diesel Range Organics (DRO)             | ND     | 1.0      |      | mg/L  | 1  | 9/28/2011 11:29:28 PM |
| Surr: DNOP                              | 133    | 81.1-147 |      | %REC  | 1  | 9/28/2011 11:29:28 PM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)           | ND     | 0.050    |      | mg/L  | 1  | 10/1/2011 4:17:22 PM  |
| Surr: BFB                               | 90.1   | 65.4-141 |      | %REC  | 1  | 10/1/2011 4:17:22 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA          |
| Benzene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 4:17:22 PM  |
| Toluene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 4:17:22 PM  |
| Ethylbenzene                            | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 4:17:22 PM  |
| Xylenes, Total                          | ND     | 2.0      |      | µg/L  | 1  | 10/1/2011 4:17:22 PM  |
| Surr: 4-Bromofluorobenzene              | 85.8   | 76.5-115 |      | %REC  | 1  | 10/1/2011 4:17:22 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: 07-Oct-11

Analytical Report

|   |  |
|---|--|
| <b>CLIENT:</b> Southwest Geoscience         | <b>Client Sample ID:</b> MW-10               |
| <b>Lab Order:</b> 1109901                   | <b>Collection Date:</b> 9/20/2011 3:30:00 PM |
| <b>Project:</b> Lindrith Compressor Station | <b>Date Received:</b> 9/23/2011              |
| <b>Lab ID:</b> 1109901-05                   | <b>Matrix:</b> AQUEOUS                       |

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|---|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB           |
| Diesel Range Organics (DRO)             | ND     | 1.0      |      | mg/L  | 1  | 9/29/2011 12:04:05 AM |
| Surr: DNOP                              | 137    | 81.1-147 |      | %REC  | 1  | 9/29/2011 12:04:05 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)           | ND     | 0.050    |      | mg/L  | 1  | 10/1/2011 4:47:32 PM  |
| Surr: BFB                               | 86.8   | 65.4-141 |      | %REC  | 1  | 10/1/2011 4:47:32 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA          |
| Benzene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 4:47:32 PM  |
| Toluene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 4:47:32 PM  |
| Ethylbenzene                            | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 4:47:32 PM  |
| Xylenes, Total                          | ND     | 2.0      |      | µg/L  | 1  | 10/1/2011 4:47:32 PM  |
| Surr: 4-Bromofluorobenzene              | 82.0   | 76.5-115 |      | %REC  | 1  | 10/1/2011 4:47:32 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: 07-Oct-11  
Analytical Report

CLIENT: Southwest Geoscience  
Lab Order: 1109901  
Project: Lindrith Compressor Station  
Lab ID: 1109901-06

Client Sample ID: MW-42  
Collection Date: 9/20/2011 4:00:00 PM  
Date Received: 9/23/2011  
Matrix: AQUEOUS

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|---|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB           |
| Diesel Range Organics (DRO)             | ND     | 1.0      |      | mg/L  | 1  | 9/29/2011 12:38:28 AM |
| Surr: DNOP                              | 132    | 81.1-147 |      | %REC  | 1  | 9/29/2011 12:38:28 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)           | 0.62   | 0.050    |      | mg/L  | 1  | 10/2/2011 2:01:25 PM  |
| Surr: BFB                               | 113    | 65.4-141 |      | %REC  | 1  | 10/2/2011 2:01:25 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA          |
| Benzene                                 | 70     | 1.0      |      | µg/L  | 1  | 10/2/2011 2:01:25 PM  |
| Toluene                                 | 42     | 1.0      |      | µg/L  | 1  | 10/2/2011 2:01:25 PM  |
| Ethylbenzene                            | 4.1    | 1.0      |      | µg/L  | 1  | 10/2/2011 2:01:25 PM  |
| Xylenes, Total                          | 33     | 2.0      |      | µg/L  | 1  | 10/2/2011 2:01:25 PM  |
| Surr: 4-Bromofluorobenzene              | 104    | 76.5-115 |      | %REC  | 1  | 10/2/2011 2:01:25 PM  |

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level  
E Estimated value  
J Analyte detected below quantitation limits  
NC Non-Chlorinated  
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

**Hall Environmental Analysis Laboratory, Inc.**

Date: 07-Oct-11  
Analytical Report

|   |  |
|---|--|
| <b>CLIENT:</b> Southwest Geoscience         | <b>Client Sample ID:</b> MW-34               |
| <b>Lab Order:</b> 1109901                   | <b>Collection Date:</b> 9/20/2011 4:35:00 PM |
| <b>Project:</b> Lindrith Compressor Station | <b>Date Received:</b> 9/23/2011              |
| <b>Lab ID:</b> 1109901-07                   | <b>Matrix:</b> AQUEOUS                       |

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|---|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)             | ND     | 1.0      |      | mg/L  | 1  | 9/29/2011 1:12:37 AM |
| Surr: DNOP                              | 116    | 81.1-147 |      | %REC  | 1  | 9/29/2011 1:12:37 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)           | ND     | 0.050    |      | mg/L  | 1  | 10/1/2011 5:47:24 PM |
| Surr: BFB                               | 88.5   | 65.4-141 |      | %REC  | 1  | 10/1/2011 5:47:24 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA         |
| Benzene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 5:47:24 PM |
| Toluene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 5:47:24 PM |
| Ethylbenzene                            | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 5:47:24 PM |
| Xylenes, Total                          | ND     | 2.0      |      | µg/L  | 1  | 10/1/2011 5:47:24 PM |
| Surr: 4-Bromofluorobenzene              | 86.8   | 76.5-115 |      | %REC  | 1  | 10/1/2011 5:47:24 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: 07-Oct-11  
Analytical Report

CLIENT: Southwest Geoscience  
Lab Order: 1109901  
Project: Lindrith Compressor Station  
Lab ID: 1109901-08

Client Sample ID: MW-11  
Collection Date: 9/20/2011 5:05:00 PM  
Date Received: 9/23/2011  
Matrix: AQUEOUS

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|---|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)             | ND     | 1.0      |      | mg/L  | 1  | 9/29/2011 1:47:02 AM |
| Surr: DNOP                              | 124    | 81.1-147 |      | %REC  | 1  | 9/29/2011 1:47:02 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)           | ND     | 0.050    |      | mg/L  | 1  | 10/1/2011 6:17:30 PM |
| Surr: BFB                               | 92.5   | 65.4-141 |      | %REC  | 1  | 10/1/2011 6:17:30 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA         |
| Benzene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 6:17:30 PM |
| Toluene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 6:17:30 PM |
| Ethylbenzene                            | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 6:17:30 PM |
| Xylenes, Total                          | ND     | 2.0      |      | µg/L  | 1  | 10/1/2011 6:17:30 PM |
| Surr: 4-Bromofluorobenzene              | 90.8   | 76.5-115 |      | %REC  | 1  | 10/1/2011 6:17:30 PM |

**Qualifiers:**

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

Hall Environmental Analysis Laboratory, Inc.

Date: 07-Oct-11  
Analytical Report

CLIENT: Southwest Geoscience Client Sample ID: MW-12  
 Lab Order: 1109901 Collection Date: 9/21/2011 8:30:00 AM  
 Project: Lindrith Compressor Station Date Received: 9/23/2011  
 Lab ID: 1109901-09 Matrix: AQUEOUS

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|---|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)             | ND     | 1.0      |      | mg/L  | 1  | 9/29/2011 2:55:20 AM |
| Surr: DNOP                              | 129    | 81.1-147 |      | %REC  | 1  | 9/29/2011 2:55:20 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)           | 0.81   | 0.050    |      | mg/L  | 1  | 10/1/2011 6:47:30 PM |
| Surr: BFB                               | 144    | 65.4-141 | S    | %REC  | 1  | 10/1/2011 6:47:30 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA         |
| Benzene                                 | 63     | 1.0      |      | µg/L  | 1  | 10/1/2011 6:47:30 PM |
| Toluene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 6:47:30 PM |
| Ethylbenzene                            | 17     | 1.0      |      | µg/L  | 1  | 10/1/2011 6:47:30 PM |
| Xylenes, Total                          | 26     | 2.0      |      | µg/L  | 1  | 10/1/2011 6:47:30 PM |
| Surr: 4-Bromofluorobenzene              | 106    | 76.5-115 |      | %REC  | 1  | 10/1/2011 6:47:30 PM |

Qualifiers:

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

**Hall Environmental Analysis Laboratory, Inc.**

Date: 07-Oct-11  
Analytical Report

|   |  |
|---|--|
| <b>CLIENT:</b> Southwest Geoscience         | <b>Client Sample ID:</b> MW-35               |
| <b>Lab Order:</b> 1109901                   | <b>Collection Date:</b> 9/21/2011 9:05:00 AM |
| <b>Project:</b> Lindrith Compressor Station | <b>Date Received:</b> 9/23/2011              |
| <b>Lab ID:</b> 1109901-10                   | <b>Matrix:</b> AQUEOUS                       |

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|---|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)             | ND     | 1.0      |      | mg/L  | 1  | 9/29/2011 3:30:00 AM |
| Surr: DNOP                              | 143    | 81.1-147 |      | %REC  | 1  | 9/29/2011 3:30:00 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)           | ND     | 0.050    |      | mg/L  | 1  | 10/1/2011 7:17:29 PM |
| Surr: BFB                               | 98.8   | 65.4-141 |      | %REC  | 1  | 10/1/2011 7:17:29 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA         |
| Benzene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 7:17:29 PM |
| Toluene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 7:17:29 PM |
| Ethylbenzene                            | ND     | 1.0      |      | µg/L  | 1  | 10/1/2011 7:17:29 PM |
| Xylenes, Total                          | ND     | 2.0      |      | µg/L  | 1  | 10/1/2011 7:17:29 PM |
| Surr: 4-Bromofluorobenzene              | 95.5   | 76.5-115 |      | %REC  | 1  | 10/1/2011 7:17:29 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: 07-Oct-11  
Analytical Report

CLIENT: Southwest Geoscience  
Lab Order: 1109901  
Project: Lindrith Compressor Station  
Lab ID: 1109901-11

Client Sample ID: MW-41  
Collection Date: 9/21/2011 9:35:00 AM  
Date Received: 9/23/2011  
Matrix: AQUEOUS

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|---|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB           |
| Diesel Range Organics (DRO)             | 2.4    | 1.0      |      | mg/L  | 1  | 9/29/2011 4:04:25 AM  |
| Surr: DNOP                              | 138    | 81.1-147 |      | %REC  | 1  | 9/29/2011 4:04:25 AM  |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA          |
| Gasoline Range Organics (GRO)           | ND     | 0.50     |      | mg/L  | 10 | 10/2/2011 12:17:27 AM |
| Surr: BFB                               | 96.4   | 65.4-141 |      | %REC  | 10 | 10/2/2011 12:17:27 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA          |
| Benzene                                 | ND     | 10       |      | µg/L  | 10 | 10/2/2011 12:17:27 AM |
| Toluene                                 | ND     | 10       |      | µg/L  | 10 | 10/2/2011 12:17:27 AM |
| Ethylbenzene                            | ND     | 10       |      | µg/L  | 10 | 10/2/2011 12:17:27 AM |
| Xylenes, Total                          | 30     | 20       |      | µg/L  | 10 | 10/2/2011 12:17:27 AM |
| Surr: 4-Bromofluorobenzene              | 94.7   | 76.5-115 |      | %REC  | 10 | 10/2/2011 12:17:27 AM |

### Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 07-Oct-11

Analytical Report

CLIENT: Southwest Geoscience Client Sample ID: MW-7  
 Lab Order: 1109901 Collection Date: 9/21/2011 10:30:00 AM  
 Project: Lindrith Compressor Station Date Received: 9/23/2011  
 Lab ID: 1109901-12 Matrix: AQUEOUS

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|---|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)             | ND     | 1.0      |      | mg/L  | 1  | 9/29/2011 4:38:51 AM |
| Surr: DNOP                              | 120    | 81.1-147 |      | %REC  | 1  | 9/29/2011 4:38:51 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)           | 0.57   | 0.050    |      | mg/L  | 1  | 10/2/2011 1:19:20 AM |
| Surr: BFB                               | 119    | 65.4-141 |      | %REC  | 1  | 10/2/2011 1:19:20 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA         |
| Benzene                                 | 3.3    | 1.0      |      | µg/L  | 1  | 10/2/2011 1:19:20 AM |
| Toluene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/2/2011 1:19:20 AM |
| Ethylbenzene                            | ND     | 1.0      |      | µg/L  | 1  | 10/2/2011 1:19:20 AM |
| Xylenes, Total                          | 4.9    | 2.0      |      | µg/L  | 1  | 10/2/2011 1:19:20 AM |
| Surr: 4-Bromofluorobenzene              | 95.6   | 76.5-115 |      | %REC  | 1  | 10/2/2011 1:19:20 AM |

Qualifiers:

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

# Hall Environmental Analysis Laboratory, Inc.

Date: 07-Oct-11

Analytical Report

|   |   |
|---|---|
| <b>CLIENT:</b> Southwest Geoscience         | <b>Client Sample ID:</b> MW-36                |
| <b>Lab Order:</b> 1109901                   | <b>Collection Date:</b> 9/21/2011 11:05:00 AM |
| <b>Project:</b> Lindrith Compressor Station | <b>Date Received:</b> 9/23/2011               |
| <b>Lab ID:</b> 1109901-13                   | <b>Matrix:</b> AQUEOUS                        |

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|---|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)             | ND     | 1.0      |      | mg/L  | 1  | 9/29/2011 5:13:18 AM |
| Surr: DNOP                              | 124    | 81.1-147 |      | %REC  | 1  | 9/29/2011 5:13:18 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)           | 0.15   | 0.050    |      | mg/L  | 1  | 10/2/2011 1:49:23 AM |
| Surr: BFB                               | 107    | 65.4-141 |      | %REC  | 1  | 10/2/2011 1:49:23 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA         |
| Benzene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/2/2011 1:49:23 AM |
| Toluene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/2/2011 1:49:23 AM |
| Ethylbenzene                            | ND     | 1.0      |      | µg/L  | 1  | 10/2/2011 1:49:23 AM |
| Xylenes, Total                          | ND     | 2.0      |      | µg/L  | 1  | 10/2/2011 1:49:23 AM |
| Surr: 4-Bromofluorobenzene              | 94.6   | 76.5-115 |      | %REC  | 1  | 10/2/2011 1:49:23 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: 07-Oct-11  
Analytical Report

|   |   |
|---|---|
| <b>CLIENT:</b> Southwest Geoscience         | <b>Client Sample ID:</b> MW-6                 |
| <b>Lab Order:</b> 1109901                   | <b>Collection Date:</b> 9/21/2011 11:45:00 AM |
| <b>Project:</b> Lindrith Compressor Station | <b>Date Received:</b> 9/23/2011               |
| <b>Lab ID:</b> 1109901-14                   | <b>Matrix:</b> AQUEOUS                        |

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|---|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)             | 1.4    | 1.0      |      | mg/L  | 1  | 9/29/2011 5:47:30 AM |
| Surr: DNOP                              | 118    | 81.1-147 |      | %REC  | 1  | 9/29/2011 6:47:30 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)           | 32     | 0.50     |      | mg/L  | 10 | 10/2/2011 2:49:28 AM |
| Surr: BFB                               | 105    | 65.4-141 |      | %REC  | 10 | 10/2/2011 2:49:28 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA         |
| Benzene                                 | 4900   | 50       |      | µg/L  | 50 | 10/2/2011 2:19:27 AM |
| Toluene                                 | 67     | 10       |      | µg/L  | 10 | 10/2/2011 2:49:28 AM |
| Ethylbenzene                            | 330    | 10       |      | µg/L  | 10 | 10/2/2011 2:49:28 AM |
| Xylenes, Total                          | 1800   | 20       |      | µg/L  | 10 | 10/2/2011 2:49:28 AM |
| Surr: 4-Bromofluorobenzene              | 101    | 76.5-115 |      | %REC  | 10 | 10/2/2011 2:49:28 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: 07-Oct-11  
Analytical Report

|   |   |
|---|---|
| <b>CLIENT:</b> Southwest Geoscience         | <b>Client Sample ID:</b> MW-38                |
| <b>Lab Order:</b> 1109901                   | <b>Collection Date:</b> 9/21/2011 12:20:00 PM |
| <b>Project:</b> Lindrith Compressor Station | <b>Date Received:</b> 9/23/2011               |
| <b>Lab ID:</b> 1109901-15                   | <b>Matrix:</b> AQUEOUS                        |

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|---|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)             | 1.3    | 1.0      |      | mg/L  | 1  | 9/29/2011 6:21:44 AM |
| Surr: DNOP                              | 125    | 81.1-147 |      | %REC  | 1  | 9/29/2011 6:21:44 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)           | 26     | 2.5      |      | mg/L  | 50 | 10/2/2011 3:49:19 AM |
| Surr: BFB                               | 96.9   | 65.4-141 |      | %REC  | 50 | 10/2/2011 3:49:19 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA         |
| Benzene                                 | 2100   | 50       |      | µg/L  | 50 | 10/2/2011 3:49:19 AM |
| Toluene                                 | 440    | 50       |      | µg/L  | 50 | 10/2/2011 3:49:19 AM |
| Ethylbenzene                            | 270    | 50       |      | µg/L  | 50 | 10/2/2011 3:49:19 AM |
| Xylenes, Total                          | 1800   | 100      |      | µg/L  | 50 | 10/2/2011 3:49:19 AM |
| Surr: 4-Bromofluorobenzene              | 97.7   | 76.5-115 |      | %REC  | 50 | 10/2/2011 3:49:19 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: 07-Oct-11

Analytical Report

|   |  |
|---|--|
| <b>CLIENT:</b> Southwest Geoscience         | <b>Client Sample ID:</b> MW-5                |
| <b>Lab Order:</b> 1109901                   | <b>Collection Date:</b> 9/21/2011 1:00:00 PM |
| <b>Project:</b> Lindrith Compressor Station | <b>Date Received:</b> 9/23/2011              |
| <b>Lab ID:</b> 1109901-16                   | <b>Matrix:</b> AQUEOUS                       |

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|---|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)             | 1.1    | 1.0      |      | mg/L  | 1  | 9/29/2011 6:55:33 AM |
| Surr: DNOP                              | 131    | 81.1-147 |      | %REC  | 1  | 9/29/2011 6:55:33 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)           | 0.62   | 0.050    |      | mg/L  | 1  | 10/2/2011 3:01:17 PM |
| Surr: BFB                               | 177    | 65.4-141 | S    | %REC  | 1  | 10/2/2011 3:01:17 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA         |
| Benzene                                 | 1.9    | 1.0      |      | µg/L  | 1  | 10/2/2011 3:01:17 PM |
| Toluene                                 | ND     | 1.0      |      | µg/L  | 1  | 10/2/2011 3:01:17 PM |
| Ethylbenzene                            | 3.8    | 1.0      |      | µg/L  | 1  | 10/2/2011 3:01:17 PM |
| Xylenes, Total                          | 9.7    | 2.0      |      | µg/L  | 1  | 10/2/2011 3:01:17 PM |
| Surr: 4-Bromofluorobenzene              | 112    | 76.5-115 |      | %REC  | 1  | 10/2/2011 3:01:17 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: 07-Oct-11  
Analytical Report

CLIENT: Southwest Geoscience      Client Sample ID: MW-4  
 Lab Order: 1109901      Collection Date: 9/21/2011 1:45:00 PM  
 Project: Lindrith Compressor Station      Date Received: 9/23/2011  
 Lab ID: 1109901-17      Matrix: AQUEOUS

| Analyses                                | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|---|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015B: DIESEL RANGE</b>   |        |          |      |       |    | Analyst: JB          |
| Diesel Range Organics (DRO)             | 1.1    | 1.0      |      | mg/L  | 1  | 9/29/2011 7:29:58 AM |
| Surr: DNOP                              | 137    | 81.1-147 |      | %REC  | 1  | 9/29/2011 7:29:58 AM |
| <b>EPA METHOD 8015B: GASOLINE RANGE</b> |        |          |      |       |    | Analyst: RAA         |
| Gasoline Range Organics (GRO)           | 32     | 0.50     |      | mg/L  | 10 | 10/2/2011 5:19:08 AM |
| Surr: BFB                               | 94.9   | 65.4-141 |      | %REC  | 10 | 10/2/2011 5:19:08 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>      |        |          |      |       |    | Analyst: RAA         |
| Benzene                                 | 4000   | 50       |      | µg/L  | 50 | 10/2/2011 4:49:06 AM |
| Toluene                                 | 1700   | 50       |      | µg/L  | 50 | 10/2/2011 4:49:06 AM |
| Ethylbenzene                            | 280    | 10       |      | µg/L  | 10 | 10/2/2011 5:19:08 AM |
| Xylenes, Total                          | 1700   | 20       |      | µg/L  | 10 | 10/2/2011 5:19:08 AM |
| Surr: 4-Bromofluorobenzene              | 92.0   | 76.5-116 |      | %REC  | 10 | 10/2/2011 5:19:08 AM |

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Southwest Geoscience  
 Project: Lindrith Compressor Station

Work Order: 1109901

| Analyte                                | Result | Units | PQL | SPK Va | SPK ref | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|--|--------|-------|-----|--------|---------|------|----------|-----------|------|----------|------|
| Method: EPA Method 8015B: Diesel Range |        |       |     |        |         |      |          |           |      |          |      |
| Sample ID: MB-28573                    |        | MBLK  |     |        |         |      |          |           |      |          |      |
| Diesel Range Organics (DRO)            | ND     | mg/L  | 1.0 |        |         |      |          |           |      |          |      |
| Sample ID: LCS-28573                   |        | LCS   |     |        |         |      |          |           |      |          |      |
| Diesel Range Organics (DRO)            | 5.495  | mg/L  | 1.0 | 5      | 0       | 110  | 74       | 157       |      |          |      |
| Sample ID: LCSD-28573                  |        | LCSD  |     |        |         |      |          |           |      |          |      |
| Diesel Range Organics (DRO)            | 8.136  | mg/L  | 1.0 | 5      | 0       | 123  | 74       | 157       | 11.0 | 23       |      |

|  |        |      |       |     |   |     |      |     |      |      |  |
|--|--------|------|-------|-----|---|-----|------|-----|------|------|--|
| Method: EPA Method 8015B: Gasoline Range |        |      |       |     |   |     |      |     |      |      |  |
| Sample ID: 1109901-03A MSD               |        | MSD  |       |     |   |     |      |     |      |      |  |
| Gasoline Range Organics (GRO)            | 0.5692 | mg/L | 0.050 | 0.5 | 0 | 114 | 66.1 | 127 | 5.08 | 15.5 |  |
| Sample ID: 5ML RB                        |        | MBLK |       |     |   |     |      |     |      |      |  |
| Gasoline Range Organics (GRO)            | ND     | mg/L | 0.050 |     |   |     |      |     |      |      |  |
| Sample ID: 5ML RB                        |        | MBLK |       |     |   |     |      |     |      |      |  |
| Gasoline Range Organics (GRO)            | ND     | mg/L | 0.050 |     |   |     |      |     |      |      |  |
| Sample ID: 2.6UG GRO LCS                 |        | LCS  |       |     |   |     |      |     |      |      |  |
| Gasoline Range Organics (GRO)            | 0.5368 | mg/L | 0.050 | 0.5 | 0 | 107 | 92.1 | 117 |      |      |  |
| Sample ID: 2.5UG GRO LCS                 |        | LCS  |       |     |   |     |      |     |      |      |  |
| Gasoline Range Organics (GRO)            | 0.5604 | mg/L | 0.050 | 0.5 | 0 | 112 | 92.1 | 117 |      |      |  |
| Sample ID: 1109901-03A MS                |        | MS   |       |     |   |     |      |     |      |      |  |
| Gasoline Range Organics (GRO)            | 0.5410 | mg/L | 0.050 | 0.5 | 0 | 108 | 66.1 | 127 |      |      |  |

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

Client: Southwest Geoscience  
 Project: Lindrith Compressor Station

Work Order: 1109901

| Analyte                             | Result | Units | PQL | SPK Va | SPK ref | %Rec | LowLimit         | HighLimit                            | %RPD  | RPDLimit | Qual |
|-------------------------------------|--------|-------|-----|--------|---------|------|------------------|--------------------------------------|-------|----------|------|
| Method: EPA Method 8021B: Volatiles |        |       |     |        |         |      |                  |                                      |       |          |      |
| Sample ID: 1109901-04A MSD          |        | MSD   |     |        |         |      | Batch ID: R48113 | Analysis Date: 10/1/2011 9:17:28 PM  |       |          |      |
| Benzene                             | 21.77  | µg/L  | 1.0 | 20     | 0.698   | 105  | 76.6             | 119                                  | 2.96  | 16.4     |      |
| Toluene                             | 21.62  | µg/L  | 1.0 | 20     | 0       | 108  | 77.3             | 118                                  | 4.73  | 13.9     |      |
| Ethylbenzene                        | 21.98  | µg/L  | 1.0 | 20     | 0       | 110  | 76.6             | 114                                  | 0.635 | 13.5     |      |
| Xylenes, Total                      | 66.09  | µg/L  | 2.0 | 60     | 0       | 110  | 82               | 113                                  | 1.46  | 12.9     |      |
| Sample ID: 5ML RB                   |        | MBLK  |     |        |         |      | Batch ID: R48113 | Analysis Date: 10/1/2011 11:15:37 AM |       |          |      |
| Benzene                             | ND     | µg/L  | 1.0 |        |         |      |                  |                                      |       |          |      |
| Toluene                             | ND     | µg/L  | 1.0 |        |         |      |                  |                                      |       |          |      |
| Ethylbenzene                        | ND     | µg/L  | 1.0 |        |         |      |                  |                                      |       |          |      |
| Xylenes, Total                      | ND     | µg/L  | 2.0 |        |         |      |                  |                                      |       |          |      |
| Sample ID: 5ML RB                   |        | MBLK  |     |        |         |      | Batch ID: R48130 | Analysis Date: 10/2/2011 10:30:47 AM |       |          |      |
| Benzene                             | ND     | µg/L  | 1.0 |        |         |      |                  |                                      |       |          |      |
| Toluene                             | ND     | µg/L  | 1.0 |        |         |      |                  |                                      |       |          |      |
| Ethylbenzene                        | ND     | µg/L  | 1.0 |        |         |      |                  |                                      |       |          |      |
| Xylenes, Total                      | ND     | µg/L  | 2.0 |        |         |      |                  |                                      |       |          |      |
| Sample ID: 100NG BTEX LCS           |        | LCS   |     |        |         |      | Batch ID: R48113 | Analysis Date: 10/1/2011 1:17:15 PM  |       |          |      |
| Benzene                             | 20.57  | µg/L  | 1.0 | 20     | 0       | 103  | 80               | 120                                  |       |          |      |
| Toluene                             | 21.64  | µg/L  | 1.0 | 20     | 0       | 108  | 80               | 120                                  |       |          |      |
| Ethylbenzene                        | 21.69  | µg/L  | 1.0 | 20     | 0       | 108  | 80               | 120                                  |       |          |      |
| Xylenes, Total                      | 65.75  | µg/L  | 2.0 | 60     | 0       | 110  | 80               | 120                                  |       |          |      |
| Sample ID: 100NG BTEX LCS           |        | LCS   |     |        |         |      | Batch ID: R48130 | Analysis Date: 10/2/2011 1:01:19 PM  |       |          |      |
| Benzene                             | 21.89  | µg/L  | 1.0 | 20     | 0       | 109  | 80               | 120                                  |       |          |      |
| Toluene                             | 22.11  | µg/L  | 1.0 | 20     | 0       | 111  | 80               | 120                                  |       |          |      |
| Ethylbenzene                        | 21.47  | µg/L  | 1.0 | 20     | 0       | 107  | 80               | 120                                  |       |          |      |
| Xylenes, Total                      | 65.25  | µg/L  | 2.0 | 60     | 0       | 109  | 80               | 120                                  |       |          |      |
| Sample ID: 1109901-04A MS           |        | MS    |     |        |         |      | Batch ID: R48113 | Analysis Date: 10/1/2011 8:47:22 PM  |       |          |      |
| Benzene                             | 22.42  | µg/L  | 1.0 | 20     | 0.698   | 109  | 76.6             | 119                                  |       |          |      |
| Toluene                             | 22.66  | µg/L  | 1.0 | 20     | 0       | 113  | 77.3             | 118                                  |       |          |      |
| Ethylbenzene                        | 22.12  | µg/L  | 1.0 | 20     | 0       | 111  | 76.6             | 114                                  |       |          |      |
| Xylenes, Total                      | 67.07  | µg/L  | 2.0 | 60     | 0       | 112  | 82               | 113                                  |       |          |      |

## 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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name SOUTHWEST GEOSCIENCE

Date Received:

9/23/2011

Work Order Number 1109901

Received by: AMG

Checklist completed by:

Signature

7/23/11  
Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name Courier

- 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? 3.3° <6° C Acceptable

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

CHAIN OF CUSTODY RECORD

Lab use only  
Due Date:

Temp. of coolers when received (C°):

|   |   |   |   |   |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|

Page 1 of 2

ANALYSIS REQUESTED

*TPH GAO/DRO BOLS*  
*BTEX BOLS*

Laboratory: Hall 125  
PACE Analytical

Address: Albuquerque, NM

Contact: Addy Freeman

Phone: (505) 345-3975

PO/SO #:

Project Manager K. Summers

Sampler's Name J. Dubuison

Sampler's Signature *[Signature]*

| Matrix | Date    | Time | C<br>o<br>m<br>p | G<br>I<br>a<br>b | Identifying Marks of Sample(s) | No/Type of Containers |                  |                  |                  | Lab Sample ID (Lab Use Only) |     |            |           |           |
|--------|---------|------|------------------|------------------|--------------------------------|-----------------------|------------------|------------------|------------------|------------------------------|-----|------------|-----------|-----------|
|        |         |      |                  |                  |                                | 5<br>g<br>P<br>b      | 5<br>g<br>W<br>b | 5<br>g<br>S<br>b | 5<br>g<br>L<br>b |                              | VOA | A/G<br>1 L | 250<br>ml | P/O       |
| W      | 9-20-11 | 1300 | X                |                  | MW-40                          |                       |                  |                  | 4                |                              |     |            |           | 1109901-1 |
| ↑      | ↑       | 1335 | ↑                |                  | MW-31                          |                       |                  |                  | ↑                |                              |     |            |           | -2        |
| ↑      | ↑       | 1420 | ↑                |                  | MW-33                          |                       |                  |                  | ↑                |                              |     |            |           | -3        |
| ↑      | ↑       | 1455 | ↑                |                  | MW-8                           |                       |                  |                  | ↑                |                              |     |            |           | -4        |
| ↑      | ↑       | 1530 | ↑                |                  | MW-10                          |                       |                  |                  | ↑                |                              |     |            |           | -5        |
| ↑      | ↑       | 1600 | ↑                |                  | MW-42                          |                       |                  |                  | ↑                |                              |     |            |           | -6        |
| ↑      | ↑       | 1635 | ↑                |                  | MW-34                          |                       |                  |                  | ↑                |                              |     |            |           | -7        |
| ↑      | ↑       | 1705 | ↑                |                  | MW-11                          |                       |                  |                  | ↑                |                              |     |            |           | -8        |
| ↑      | ↑       | 0830 | ↑                |                  | MW-12                          |                       |                  |                  | ↑                |                              |     |            |           | -9        |
| ↑      | ↑       | 0905 | ↑                |                  | MW-35                          |                       |                  |                  | ↑                |                              |     |            |           | -10       |

Turn around time  Normal  25% Rush  50% Rush  100% Rush

Relinquished by (Signature) *[Signature]* Date: 9-21-11 Time: 845 Received by (Signature) *[Signature]* Date: 9/22/11 Time: 845

Relinquished by (Signature) *[Signature]* Date: 9/23/11 Time: 810 Received by (Signature) *[Signature]* Date: 9/23/11 Time: 14:00

Relinquished by (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

NOTES: 33

Matrix Container

WW - Wastewater  
VOA - 40 ml vial

W - Water  
A/G - Amber / Or Glass 1 Liter

S - Soil  
SD - Solid

L - Liquid  
250 ml - Glass wide mouth

A - Air Bag

C - Charcoal tube  
P/O - Plastic or other

O - Oil

CHAIN OF CUSTODY RECORD

ANALYSIS REQUESTED  
 TPH GPO/DRO Boils  
 BTEX Boils

Lab use only  
 Due Date: \_\_\_\_\_  
 Temp. of coolers when received (C°):  
 1 2 3 4 5  
 Page 2 of 2

Laboratory: Hall P.C. PACE Analytical  
 Address: Albuquerque, NM  
 Contact: Andy Freeman  
 Phone: (505) 345-3975  
 PO/SO #: \_\_\_\_\_

Project Manager: K. Summers  
 Sampler's Name: J. Dubuison  
 Project Name: Lindriith Compressor  
 No/Type of Containers: \_\_\_\_\_

| Matrix | Date | Time | Identifying Marks of Sample(s) | Dep't | Dep't | VOA | AVG 1L | 250 ml | P/O | Lab Sample ID (Lab Use Only) |
|--------|------|------|--------------------------------|-------|-------|-----|--------|--------|-----|------------------------------|
| ↓      | 0935 |      | MW-41                          | ↓     | ↓     | ↓   | ↓      | ↓      |     | 1169901-11                   |
| ↓      | 1030 |      | MW-7                           | ↓     | ↓     | ↓   | ↓      | ↓      |     | -12                          |
| ↓      | 1105 |      | MW-36                          | ↓     | ↓     | ↓   | ↓      | ↓      |     | -13                          |
| ↓      | 1145 |      | MW-6                           | ↓     | ↓     | ↓   | ↓      | ↓      |     | -14                          |
| ↓      | 1220 |      | MW-38                          | ↓     | ↓     | ↓   | ↓      | ↓      |     | -15                          |
| ↓      | 1300 |      | MW-5                           | ↓     | ↓     | ↓   | ↓      | ↓      |     | -16                          |
| ↓      | 1345 |      | MW-4                           | ↓     | ↓     | ↓   | ↓      | ↓      |     | -17                          |

Turn around time:  Normal  25% Rush  50% Rush  100% Rush

Relinquished by (Signature): [Signature] Date: 9-2-11 Time: 845  
 Relinquished by (Signature): [Signature] Date: 9/23/11 Time: 810  
 Relinquished by (Signature): [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by (Signature): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

NOTES: 3,3,3

Matrix Container: WW - Wastewater  
 VOA - 40 ml vial  
 W - Water  
 A/G - Amber / Or Glass 1 Liter  
 S - Soil  
 SD - Solid  
 250 ml - Glass wide mouth  
 L - Liquid  
 A - Air Bag  
 C - Charcoal tube  
 P/O - Plastic or other  
 SL - sludge  
 O - Oil

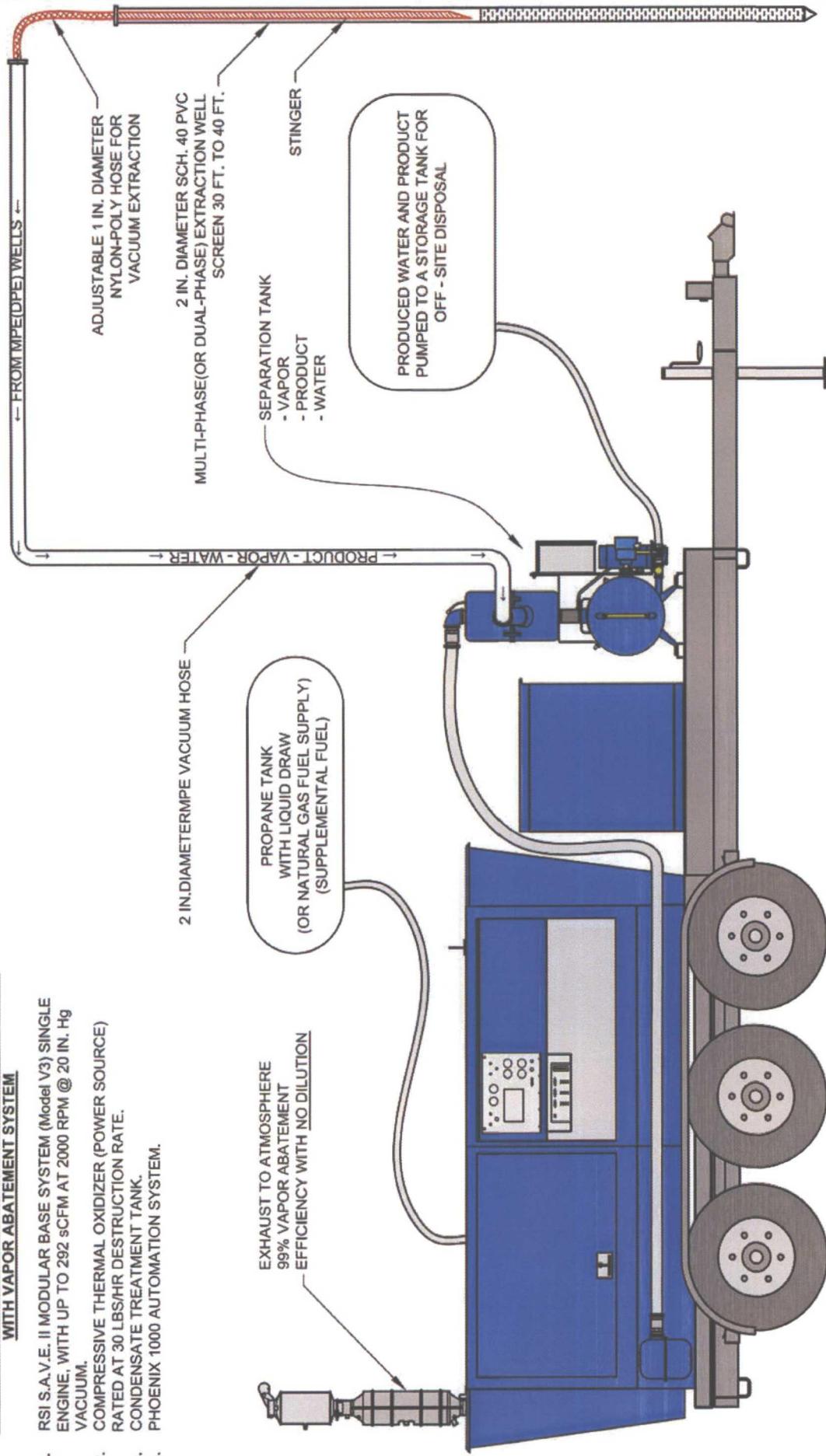
APPENDIX E

Remediation Technologies Information

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**MULTI-PHASE(OR DUAL-PHASE) VACUUM EXTRACTION UNIT  
WITH VAPOR ABATEMENT SYSTEM**

1. RSI S.A.V.E. II MODULAR BASE SYSTEM (Model V3) SINGLE ENGINE, WITH UP TO 292 scfm AT 2000 RPM @ 20 IN. Hg VACUUM.
2. COMPRESSIVE THERMAL OXIDIZER (POWER SOURCE) RATED AT 30 LBS/HR DESTRUCTION RATE.
3. CONDENSATE TREATMENT TANK.
4. PHOENIX 1000 AUTOMATION SYSTEM.



Corrective Action Work Plan  
Lindrieth Compressor Station  
SE 1/4, S 18, T24N, R5W  
N 36° 18' 32.41"; W 107° 23' 48.09"  
Rio Arriba County, New Mexico

SWG Project No. 0410006

**Southwest**  
GEO SCIENCE

HVR Unit Diagram