# PHASE II
# SUBSURFACE ASSESSMENT

## COMMERCIAL PROPERTY
## TRACT Z-1
## ALBUQUERQUE, NEW MEXICO 87102

**JOB NO. 3281JV227**


**Western Technologies Inc.**
The Quality People
Since 1955

ALBUQUERQUE – NEW MEXICO
8305 Washington Place N.E.
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**(505) 823-4488 • fax 821-2963**


**Prepared for**

**Real Estate Department**
**The University of New Mexico**
**2811 Campus Boulevard NE**
**1 University of New Mexico**
**MSC06 3595**
**Albuquerque, New Mexico 87131**

**February 1, 2012**


**David C. Wagner, P.G.**
**Environmental Scientist**

**Jeff Boyd, P.E.**
**Principal**

**Western Technologies Inc.**
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February 1, 2012

Real Estate Department
The University of New Mexico
2811 Campus Boulevard NE
1 University of New Mexico
MSC06 3595
Albuquerque, New Mexico 87131

Attn: Mr. Thomas Neale

**Re: Phase II Subsurface Assessment** **Job No. 3281JV227**
**Commercial Property**
**Tract Z-1**
**Albuquerque, New Mexico 87102**

Western Technologies Inc. is pleased to present this Phase II Subsurface Assessment Report of the Property at Tract Z-1 in Bernalillo County, New Mexico. This report has been prepared for the benefit of the University of New Mexico. This report may not be utilized or relied upon by any other person or entity without the prior written permission of WT.

This report completes the agreed scope of services. If you have any questions or if we may be of further assistance to you, please do not hesitate to contact us. Thank you for allowing us to provide these services.

Sincerely,
**WESTERN TECHNOLOGIES INC.**
**Environmental Services**

David C. Wagner, P.G.
Environmental Scientist

DCW/bms

Copies to: Addressee (3)

## EXECUTIVE SUMMARY

Western Technologies Inc. (WT) conducted a Phase II Subsurface Assessment (Phase II) at Tract Z-1 (Property) in Albuquerque, New Mexico. The Phase II was performed to assess the possibility of petroleum hydrocarbon contamination associated with specific areas of concern identified during a December 2011 Phase Environmental Site Assessment (ESA).

The odd-shaped 6.8-acre Tract Z-1 (Property) was leased from the University of New Mexico (UNM) by Galles Chevrolet. The larger North Portion of the Property was used as a parking area for the UNM Cancer Center. A chain link fence separated the North Portion and South Portion of the Property. The smaller South Portion of the Property was primarily used for vehicle storage by Galles Chevrolet. Galles Chevrolet subleased an approximately 40 foot by 60 foot fenced area near the southern tip of the Property to American Tower™ Corporation for a cellular telephone facility.

The Property is located within an area of Albuquerque that that consists of commercial and public land use in the surrounding area. The primary roads within the study area are Lomas Boulevard, south of the Property, and University Boulevard to the east. Legion Road is adjacent to the south and Camino de Salud was adjacent to the north.

In January 2012, five 30-foot deep, soil borings; SB1 through SB5, were installed at selected areas of concern. Soil boring SB5 was extended to regional ground water table and converted to a monitor well. The soil boring was completed as a 220.5-foot deep monitor well MW-12. Depth to regional ground water was 198.38 feet on January 23, 2012.

Selected soil samples from each soil boring were submitted for laboratory analyses by EPA Method 8015 laboratory analysis for Total Petroleum Hydrocarbons (TPH). A total of thirty-four soil samples were submitted for EPA Method 8015 laboratory analysis. The New Mexico Environment Department considered TPH levels $\leq$100 mg/Kg as not significant.

Laboratory analytical results from 30 of 34 soil samples were below the EPA Method 8015 laboratory detection limits. Three soil samples had TPHs ranging from 11 mg/Kg to 76 mg/Kg , which are not considered significant. Only one soil sample (SB5@100') had a significant TPH of 1,200 mg/kg. WT submitted three samples of petroleum products used in the drilling process for EPA Method 8015 laboratory analysis. The EPA Method 8015 chromatograms from two of those petroleum products very closely matched the chromatograms from SB5@100' (1,200 mg/kg) and SB5@120' (76 mg/Kg). Based on the EPA Method 8015 chromatograms, WT believes that the TPH results from both SB5@100' and SB5@120' were the result of contamination introduced by the drilling and sampling process. Therefore, WT believes that the TPH results from SB5@100' and SB5@120' are not representative of actual soil contamination.

## EXECUTIVE SUMMARY

All four soil samples with TPH results above the EPA Method 8015 laboratory detection limits were also analyzed by EPA Method 8260 and EPA Method 8310. Analytical results were below the respective detection limits for all EPA Method 8260 list compounds and all EPA Method 8310 list compounds.

One ground water sample from MW-12 was promptly analyzed by EPA Method 8260 at Hall Laboratories. Analytical results were below the respective detection limits for all EPA Method 8260 list compounds. Additional water samples from MW-12 were delivered to the New Mexico State Laboratories Division (SLD) by Bart Faris of the New Mexico Environment Department for analysis. The SLD analytical results were pending as of the date of this report.

In conclusion, all laboratory analytical results for the 34 soil samples and the one ground water sample collected during this Phase II did not indicate petroleum contamination. Based on WT's evaluation of the data collected at the Property, WT recommends no further subsurface assessment at the Property at this time.

**PHASE II**
**SUBSURFACE ASSESSMENT**

**COMMERCIAL PROPERTY**
**TRACT Z-1**
**ALBUQUERQUE, NEW MEXICO 87102**

**JOB NO. 3281JV227**

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**SUBSURFACE ASSESSMENT**
**TRACT Z-1**
**ALBUQUERQUE, NEW MEXICO 87102**

**JOB NO. 3281JV227**

# 1.0 INTRODUCTION

Western Technologies Inc. (WT) is pleased to submit the following Phase II Subsurface Assessment Report (Phase II). Western Technologies Inc. (WT) was authorized by Ms. Virginia Trujillo, Senior Contract Specialist with the University of New Mexico (UNM) according to WT Contract No. 3281PV088, dated November 29, 2011. This Phase II work was performed by Mr. David Wagner and Ms. Pamela Thomas and was reviewed by Mr. Jeff Boyd. Resumes for these individuals are available from this office upon request.

Figures are presented in Appendix A. Soil Boring Logs are presented in Appendix B. Laboratory reports are presented in Appendix C. Project records are presented in Appendix D. New Mexico State Office of the State Engineer (NMOSE) documentation is presented in Appendix E.

The purpose of the Phase II was to collect soil samples at select locations on the Property and discover, with the resources available, if soil contamination was present at those locations. The Phase II Report presents and summarizes soil conditions, site observations, soil sample collection, and laboratory analytical results conducted during the Phase II at the Property.

## 1.1 Site Description

The odd-shaped 6.8-acre Tract Z-1 (Property) was located within an area of Albuquerque that that consists of commercial and public land use in the surrounding area. The Property location is indicated on Figure 1, Site Location Map in Appendix A.

The Property was leased from the University of New Mexico (UNM) by Galles Chevrolet. The larger North Portion of the Property was subleased back to UNM as a parking area for the UNM Cancer Center. A chain link fence separated the North Portion and South Portion of the Property. The smaller South Portion of the Property was primarily used for vehicle storage by Galles Chevrolet. Galles Chevrolet subleased an approximately 40 foot by 60 foot fenced area near the southern tip of the Property to American Tower™ Corporation for a cellular telephone facility.

The primary roads within the study area are Lomas Boulevard, south of the Property, and University Boulevard to the east. Legion Road was adjacent to the south and Camino de Salud was adjacent to the north.

The Property is outlined in red on Figure 2, Soil Boring & Monitor Well MW-12 Location Map. The larger North Portion of the Property was a parking area for the UNM Cancer Center. A chain link fence separated the North Portion and South Portion of the Property. The smaller South Portion of the Property was primarily used for vehicle storage by Galles Chevrolet. Galles Chevrolet subleased an approximately 40 foot by 60 foot fenced area near the southern tip of the Property to American Tower™ Corporation for a cellular telephone facility.

### 1.2 Background

The Phase II was performed to assess the possibility of petroleum hydrocarbon contamination associated with specific areas of concern identified during a December 2011 Phase Environmental Site Assessment (Job No. 3281JV221). Oil stained soils were observed on the South Portion of the Property. A former Galles Chevrolet empty drum storage area was identified on the North Portion of the Property. The Client specified five 30-foot deep soil borings, two on the North Portion and three on the South Portion.

At the direction of the University of New Mexico, one soil boring was extended to about 20 feet below regional ground water and converted to monitor well MW-12. Exact depth to regional ground water was unknown at the start of the Phase II. Figure 2, Soil Boring & Monitor Well MW-12 Location Map indicates the Phase II soil boring locations.

### 1.3 Special Terms and Conditions

The following services were not provided during this study: surveying for the property boundary, line or grade, detailed plans and specifications, wetland surveys, hydrologic assessments and services not specifically defined herein. Activities such as detailed soil and geologic analyses, ground water monitoring, aquifer analysis, definition of the horizontal and vertical extent of soil contamination, etc., which are normally associated with later stage environmental assessments, were not conducted.

## 2.0 METHOD OF STUDY

WT collected soil samples from each soil boring, described the soil from each soil sample, and submitted selected soil samples for laboratory analysis.

### 2.1 Drilling and Sampling Methods

Preparation for Drilling

WT obtained a map of underground water, sewer, and storm drains at the Property from the Albuquerque Bernalillo County Water Utility Authority (ABCWUA). The ABCWUA Map is presented in Appendix D.

On January 5, 2012, WT contracted On Point Inc. utility locating service to locate underground utilities at potential soil boring locations in the areas of concern. The On Point Inc. Field Report is presented in Appendix D. In the Field Report, SB-A = SB3, SB-B = SB4, SB-C = SB1, SB-D = SB2.

Note that SB3 and SB5/MW-12 were in the immediate vicinity of large diameter reinforced concrete pipe storm drains. Soil boring SB5/MW-12 was also just south of overhead electric lines and just north of electric/telecommunications lines along the northern shoulder of Legion Road.

WT contacted New Mexico One Call (NMOC)for utility location on December 29, 2011. The NMOC ticket number was 2011531516. Responses from NMOC and the utility locators contracted by NMOC are presented in Appendix D.

WT obtained Permit No. RG-551, dated January 6, 2012, from the New Mexico State Office of the State Engineer (NMOSE). NMOSE documentation is presented in Appendix E.

Drilling and Sampling

Before the start of drilling activities, the drilling rigs, split-spoon soil samplers, the down hole equipment, and the associated tools were cleaned and decontaminated using a steam cleaner. A health and safety meeting was conducted prior to the commencement of drilling activities. Daily "tailgate' safety briefings were held before the start of daily activities. A copy of the health and safety plan prepared for this project can be obtained from WT upon request.

On January 9, 2012, five 30-foot deep soil borings SB-1 through SB-5 were installed by a CME-75 Drilling Rig. Soil borings were numbered in the order drilled (see Figure 2). The drilling contractor was Enviro-Drill, Inc. (EDI), of Albuquerque, New Mexico. Soil borings SB1 through SB5 were sampled at 5-foot intervals between ground surface and total depth of 30 feet using a split-spoon soil sampler driven by a hydraulic-actuated hammer located at the surface on the CME-75 drilling rig. The 30-foot sample from SB5 was not collected because gravel prevented the split spoon sampler from advancing.

Between January 10 and January 17, 2012, soil boring SB5 was extended from 30-feet to approximately 240 feet by a Star 30KD drilling rig using the downhole under-reaming bit with casing advancement method. This drilling method is commonly called the overburden drilling with eccentric (ODEX) drilling method. An ODEX Drilling Method Diagram is presented in Appendix B. The drilling contractor was HydroGeologic Services, Inc. of Albuquerque, New Mexico. Three additional soil samples were collected by the Star 30KD drilling rig from SB5 at 80 feet, 100 feet, and 120 feet using a split spoon sampler driven by a cable-actuated slide hammer. The cable-actuated slide hammer was lowered into the ODEX casing to the depth of the soil sample.

Each soil sample was field screened with the heated headspace method for concentrations of volatile organic compounds using a photo-ionization detector (PID). All PID readings were ≤2.0 parts per million and were not considered significant.

All samples were placed into laboratory prepared glassware using disposable latex gloves, and immediately placed on ice. All samples were hand delivered under chain of custody documentation to Hall Environmental Analysis Laboratories in Albuquerque, New Mexico.

The Star 30 KD experienced ODEX equipment failure during the advancement of SB5. In particular, the ODEX drilling equipment required repair at a depth of 220 feet. After consultation with the driller and UNM representatives, SB5 was extended from 220 feet to 305 feet using the air rotary method with a five-inch bit to identify the depth to regional ground water. The regional ground water table was not obvious because drill cuttings appeared relatively dry. The drill stem was removed from the soil boring to measure depth to water on the following day. The depth to water was approximately 200 feet. The air rotary hole did not remain open below the ODEX casing. After repair of the ODEX system, SB5 was extended to about 230 feet.

On January 18, 2012, soil boring SB5 was converted to the 220.5-foot deep monitor well MW-12. Total depth of the well was measured from the top of casing. The monitor well was constructed with two-inch inside diameter (ID), schedule 80, flush mount threaded, o-ring sealed, polyvinyl chloride (PVC) pipe. No adhesive was used to join the PVC casing sections. The bottom of MW-12 was a 10-foot long PVC blank with a 4-inch cap sediment sump. The 20-foot long 0.010 slot well screen extends from about 190.0 to 210.0 feet below the top of casing. On January 23, 2012, the depth to water was 198.38 feet below the top of casing.

The annulus of the monitor well was backfilled with 10/20 silica sand from the bottom of the borehole to at least five feet above the top of the well screen. Then the annulus was backfilled with about six feet of hydrated 3/8 inch bentonite chips to form a seal above the sand back. The annulus was grouted with cement grout to the surface. Monitor well MW-12 was completed with a locking cap, a traffic-rated well vault, and concrete pad. The concrete pad was slightly raised and sloped so that rainfall and run-off will flow away from the well vault. The MW-12 Well Diagram is presented in Appendix B.

WT prepared a description for each soil boring in general accordance with the Unified Soil Classification System. The PID reading for each soil sample was also recorded on the soil boring logs. Soil boring logs with PID readings are presented in Appendix B.

With the exception of SB5, which was converted to MW-12, each soil boring was grouted with a bentonite/cement grout. Soil borings SB-2, SB-3, and SB-4 were drilled through asphalt paved parking areas and repaired with approximately four-inches of asphalt at the surface. Soil boring SB1 was drilled into gravel covered soil and was covered with gravel and soil after grouting.

### 2.2 Soil Boring Locations

The following discussion presents WT's rationale for the placement of the soil borings (see Figure 4). Areas of concern for petroleum contamination related to oil stained surface soil were SB1, SB2, and SB5/MW-12. The location of SB3 was identified as a former Galles Chevrolet empty drum storage area in the December 2011 Phase I ESA. Soil boring SB4 was located at the mouth of a drainage feature for detecting potential petroleum contamination from runoff from adjacent land east of the Property.

WT and UNM representatives conferred on the exact location of the SB5/MW-12. The SB5/MW-12 location was chosen to be as far west and south as possible on the Property. The soil boring needed to be at least 15 feet north of underground utilities along the northern shoulder of Legion Road NE as possible. In addition, MW-12 had to be at least 20 feet south of overhead electric lines for safety considerations.

### 2.3 Laboratory Analysis

Thirty-four soil samples were submitted for laboratory analysis by EPA Method 8015 for Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO). Four of the 34 soil samples were also submitted for laboratory analyses by EPA Method 8260 for Volatile Organic Compounds (VOCs) and EPA Method 8310 for Poly Aromatic Hydrocarbons (PAH).

On January 23, 2012, Mr. Vernon Hershberger, Environmental Health Manager, University of New Mexico Safety & Risk Services, collected ground water samples from MW-12. The ground water samples from MW-12 were delivered to the New Mexico State Laboratories Division (SLD) by Bart Faris of the New Mexico Environment Department for analysis. The SLD analytical results were pending as of the date of this report. WT hand delivered a MW-12 duplicate ground water sample under chain of custody documentation for laboratory analyses by EPA Method 8260 to Hall Environmental Analysis Laboratories.

## 3.0 RESULTS

The following section presents the results of the field work conducted at the soil boring locations, and laboratory analyses of soil samples collected at the Property.

### 3.1 Soil Observations

Soil Boring Logs are presented in Appendix B. In general, the upper 25 feet of lithology at the Property was clayey sand to clay with sand lenses. From about 28 feet to 38 feet deep, were loose, well graded gravel to cobble with sand. From about 38 feet to 58 feet were

loose, poorly graded sands with up to 40% gravel. The soil was gradational to loose silt at 60 feet to about 87 feet with some gravel and some clay. Clay increased to stiff clay (50%) with silt (50%) from about 87 feet to 89 feet. Below that to 165 feet was loose poorly graded sand with lenses of up to 25% gravel. From 165 feet to about 184 feet was loose well graded sand with traces of clay and gravel. From about 184 feet to 193 feet, loose poorly graded sand with gravel and traces of clay graded into silt with clay and caliche that extended from about 193 feet to about 222 feet. The driller reported *"Hard drilling"* about 204 feet. From about 222 feet to total depth of 305 feet the lithology varied from loose poorly graded sand with varying amounts of gravel and isolated clay lenses.

The MW-12 depth to groundwater was 198.38 feet. During the drilling, the regional ground water table was not obvious. Soil cuttings were moist to wet about 225 feet deep but appeared dry hat from about 230 feet to total depth of 305 feet. The air pressure used during the drilling process may have forced water away from the soil boring.

All PID readings were below 2.0 parts per million (ppm). Readings below 100 ppm are not considered significant. None of the soil samples exhibited visual or olfactory indications of petroleum contamination.

## 3.2 Laboratory Analytical Results

A total of 34 soil samples were submitted for EPA Method 8015 laboratory analyses. Four selected soil samples with TPH results above the EPA Method 8015 PQLs were also analyzed by EPA Method 8260 and EPA Method 8310.

WT submitted three samples of petroleum products used in the ODEX drilling process for EPA Method 8015 laboratory analysis. The petroleum products were Delo 400, Rock Hammer Oil, and Pipe Dope.

One ground water sample from MW-12 was submitted for laboratory analyses by EPA Method 8260. Laboratory analytical reports are presented in Appendix C.

Soil Sample Laboratory Analytical Results

Laboratory results from 30 of 34 soil samples were below the EPA Method 8015 Practical Quantitation Limits (PQLs). The total of GRO, DRO, and MRO equaled the Total Petroleum Hydrocarbons (TPH). Laboratory results below the respective PQLs are considered zero for calculating TPH. The New Mexico Environment Department considered TPH levels $\leq$100 mg/Kg as not significant. Three soil samples had TPH results of 11 mg/Kg (SB-1@25'), 17 mg/Kg (SB1@30') and 76 mg/Kg (SB5@120') which are not considered significant. Only one soil sample (SB5@100') had a significant TPH of 1,200 mg/kg.

The EPA Method 8015 chromatograms from SB-1@25' (11 mg/Kg) and SB-1@30' (17 mg/Kg ) resembled chromatograms for degraded petroleum products. This was consistent with the location of SB-1 at the former Galles Chevrolet empty drum storage area.

The EPA Method 8015 chromatograms from Rock Hammer Oil and Pipe Dope very closely matched the chromatograms from SB5@100' and SB5@120' (see Appendix C). WT believes that the TPH results from both SB5@100' and SB5@120' were the result of contamination introduced by the drilling and sampling process. Therefore, WT believes that the TPH results from SB5@100' and SB5@120' are not representative of actual soil contamination.

All four soil samples with TPH results above the EPA Method 8015 PQLs were also analyzed by EPA Method 8260 for Volatile Organic Compounds (VOCs) and EPA Method 8310 for Poly Aromatic Hydrocarbons (PAH). Analytical results were below the respective PQLs for all EPA Method 8260 list compounds and all EPA Method 8310 list compounds.

Ground Water Sample Laboratory Analytical Results

One ground water sample from MW-12 was analyzed by EPA Method 8260 for VOCs. Analytical results were below the respective PQLs for all EPA Method 8260 list compounds (see Appendix C).

## 4.0 SUMMARY AND CONCLUSIONS

Five 30-foot deep soil borings were installed. One soil boring was extended to regional ground water and completed as monitor well MW-12.

A total 34 soil samples and one ground water sample were collected. All PID readings were ≤2.0 parts per million and were not considered significant. Laboratory analytical results from 30 of 34 soil samples were below the EPA Method 8015 laboratory detection limits. Three soil samples had TPHs ranging from 11 mg/Kg to 76 mg/Kg, which are not considered significant. Only one soil sample (SB5@100') had a significant TPH of 1,200 mg/kg. All four soil samples with TPH results above the EPA Method 8015 PQLs were also analyzed by EPA Method 8260 and EPA Method 8310. Analytical results were below the respective PQLs for all EPA Method 8260 list compounds and all EPA Method 8310 list compounds.

Laboratory results were compared with regulatory limits from the New Mexico Environment Department Petroleum Storage Tank Bureau Guidelines for Corrective Action, March 31, 2000. The New Mexico Environment Department considered TPH levels ≤100 mg/Kg as not significant.

Based on the EPA Method 8015 chromatograms, WT believes that the only significant TPH result of 1,200 mg/Kg from soil sample SB5@100' was the result of contamination introduced by the drilling and sampling process. Therefore, WT believes that the result of 1,200 mg/Kg from soil sample SB5@100' was not representative of actual soil contamination.

One ground water sample from MW-12 was analyzed by EPA Method 8260 for VOCs. Analytical results were below the respective PQLs for all EPA Method 8260 list compounds.

In conclusion, all laboratory analytical results for the 34 soil samples and the one ground water sample collected during this Phase II did not indicate petroleum contamination.

## 5.0 RECOMMENDATIONS

Based on WT's evaluation of the data collected at the Property, WT recommends no further subsurface assessment at the Property at this time. WT reserves the right to make modifications to any recommendations presented herein if subsequent information is developed by WT or others.

## 6.0 LIMITATIONS

This Phase II Subsurface Assessment Report has been prepared for specific application to the specific areas of the Property. WT prepared this Phase II for the University of New Mexico. This Phase II may not be utilized or relied upon by any other person or entity without the express written consent of WT.

This Phase II Subsurface Assessment encountered the following limitations:

- Soil boring locations were constrained by overhead and underground utilities.

This assessment has been performed in accordance with generally accepted environmental practices. No other warranty is expressed or implied. Our conclusions and recommendations are based upon information provided to us by others, our site observations and data generated during the assessment. Although we cannot be responsible for the accuracy of the data provided to us by others, we have no reason to suspect that any of the information provided is inaccurate unless it has been otherwise noted.

Conditions can exist within structures and below the ground surface that are not apparent visually or disclosed by sampling data. This study is limited to the conditions expressly disclosed in this report, and it does not represent the assessment or absence of any other conditions on or affecting the Property. WT's findings are based on the assumption that the sampling locations, and the resulting data, are representative of assessed conditions. WT's interpretation, discussion and opinions of the results obtained from the referenced methods, observed conditions, and tested samples are applicable only to the specifically tested locations at the times stated herein.

By providing the services described in this report WT does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state or federal public agencies any conditions at the site that may present a potential danger to public

health, safety or the environment. The client or his agent will be responsible to notify the appropriate local, state or federal public agencies as required by law, or otherwise to disclose, in a timely manner, any information that may be necessary to prevent any danger to public health, safety, or the environment. In addition, disposal of any samples determined to be a hazardous waste will be the responsibility of the client.

## 7.0 REFERENCES

### 7.1 Reports and Publications

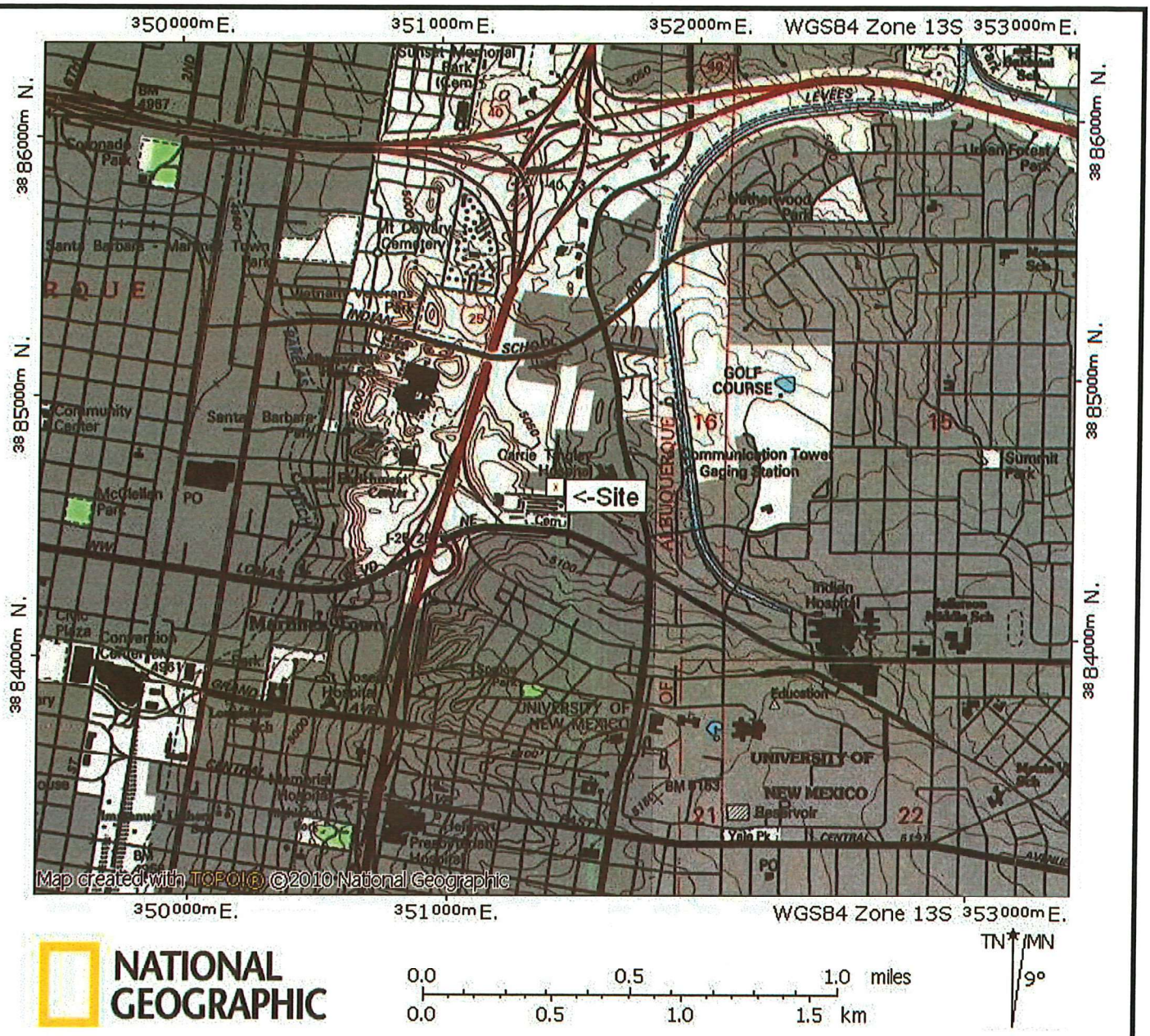
Western Technologies Inc., Phase I Environmental Site Assessment, Commercial Property, Tract Z-1, Albuquerque, New Mexico 87102, December 28, 2011(Job No. 3281JV221)

United States Geological Survey, Albuquerque West Quadrangle 7.5-Minute Series Topographic Map, 1990.

United States Geological Survey, Albuquerque East Quadrangle 7.5-Minute Series Topographic Map, 1990.

Standard Classification of Soils, ASTM D2847, 1993

New Mexico Environment Department Petroleum Storage Tank Bureau Guidelines for Corrective Action, March 31, 2000

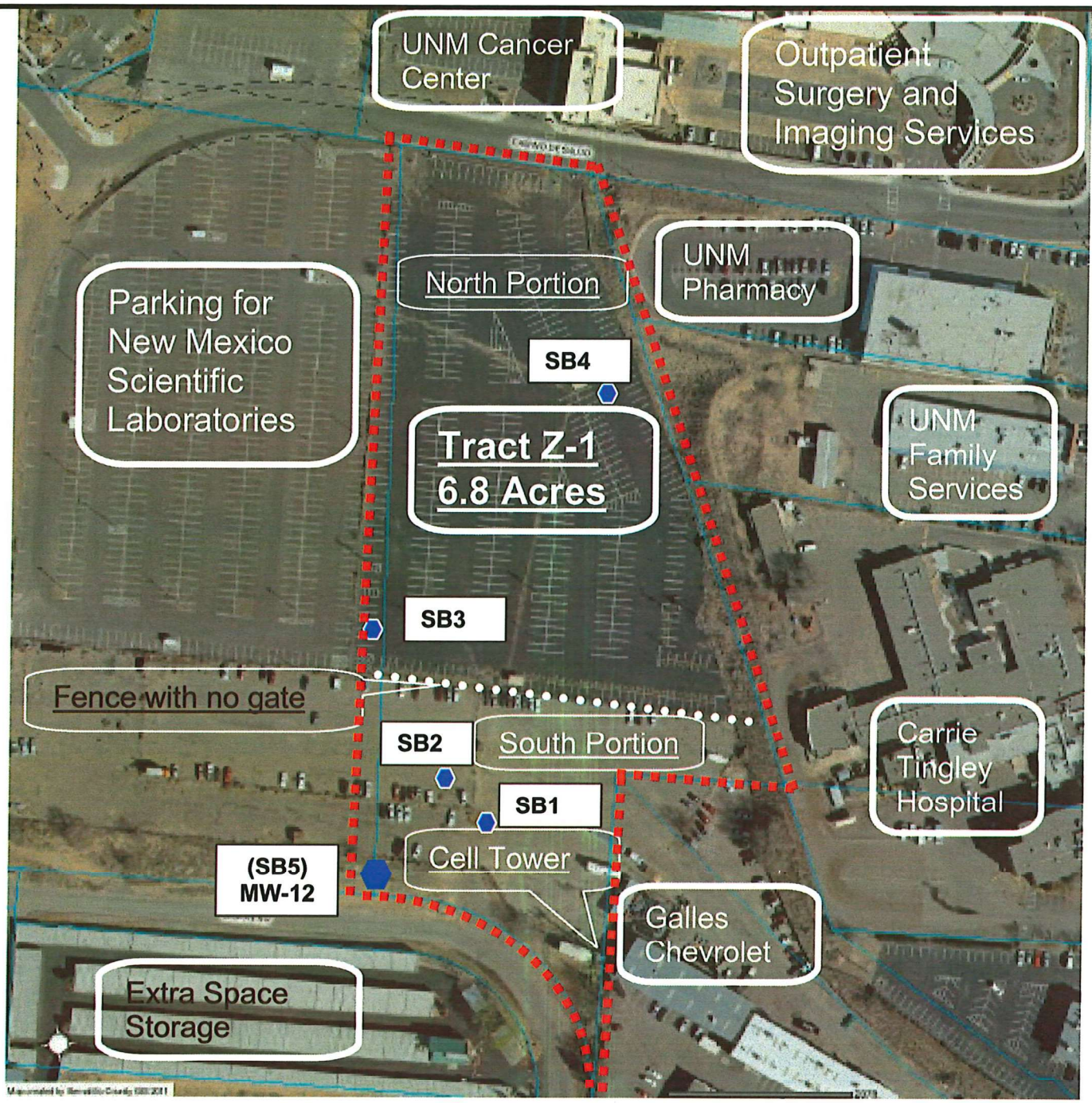



Elevation: Approximately 5,080 feet

Southeast Quarter Section 16, Township 10 North, Range 3 East

West Portion: USGS 7.5 Minute Quadrangle Map: Albuquerque West, NM 1990
East Portion: USGS 7.5 Minute Quadrangle Map: Albuquerque East, NM 1990
10-foot Contour Interval

| |
|---|
| **Commercial Property**<br>**Tract Z-1: 1221 Legion Road NE**<br>**Albuquerque, New Mexico 87102** |
| **Site Location Map** |
| **WESTERN TECHNOLOGIES INC.** |
| **Job No.: 32871V227** — **Figure 1** |




Approximate Property Boundary outlined in red
Adapted from Bernalillo County GIS website 2010 Aerial Photograph

SB-1 Soil Boring Location and ID Number

MW-12 Monitor Well MW-12 Location
Locations are approximate

| |
|---|
| **Commercial Property**<br>**Tract Z-1: 1221 Legion Road NE**<br>**Albuquerque, New Mexico 87102** |
| **Soil Boring & Monitor Well MW-12 Location Map** |
| **WESTERN TECHNOLOGIES INC.** |
| **Job No.: 32871V227** — **Figure 2** |

DATE DRILLED: 1-9-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. SB-1

EQUIPMENT TYPE: CME-75
DRILLING TYPE: 7 1/2" HSA
FIELD ENGINEER: P. Thomas

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | SW-SM | | Silty sand , 10 YR 4/6<br>Trace gravel less than 2" |
| SB-1@5' | 0 | N | | 41 | 5 | SW-SM | | Silt with clay w/coarse angular sand, 10 YR 4/6 |
| SB-1@10' | 0 | N | | 7 | 10 | SW-SM | | Silty sand w/coarse angular sand, 10 YR 4/4 |
| SB-1@15' | 1 | N | | 27 | 15 | | | |
| SB-1@20' | 0 | N | | 17 | 20 | CL | | Clay, reddish, 10 YR 4/3 |
| SB-1@25' | 0 | N | | 37 | 25 | SW-SM | | Silty sand w/coarse angular sand, 10 YR 4/6<br>Trace gravel less than 2" |
| SB-1@30' | 1 | N | | 63 | 30 | | | BORING TERMINATED AT 31.5' |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Groundwater Not Encountered**

WESTERN TECHNOLOGIES INC.

PROJECT: TRACT 2-1 PHASE II
REF. NO.: 3281JV227

BORING LOG

PLATE
B1

DATE DRILLED: 1-9-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. SB-2

EQUIPMENT TYPE: CME-75
DRILLING TYPE: 7 1/2" HSA
FIELD ENGINEER: P. Thomas

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | CL | | Clayey sand w/coarse angular sand, 10 YR 4/3 |
| SB-2@5' | 0 | N | | 7 | 5 | SW-SM | | Silty sand w/coarse angular sand, 10 YR 4/4 |
| SB-2@10' | 0 | N | | 6 | 10 | SW-SM | | Silty sand w/coarse angular sand, 10 YR 4/4<br>Trace gravel less than 2" |
| SB-2@15' | 1 | N | | 28 | 15 | | | |
| SB-2@20' | 0 | N | | 32 | 20 | SW-SM | | Silty sand w/coarse angular sand, 10 YR 4/3<br>Trace gravel less than 2" |
| SB-2@25' | 0 | N | | 32 | 25 | | | |
| SB-2@30' | 0 | N | | 65/12" | 30 | | | |
| | | | | | | | | BORING TERMINATED AT 31' |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Groundwater Not Encountered**

WESTERN TECHNOLOGIES INC.

PROJECT: TRACT 2-1 PHASE II
REF. NO.: 3281JV227

BORING LOG

PLATE
B2

DATE DRILLED: 1-9-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. SB-3

EQUIPMENT TYPE: CME-75
DRILLING TYPE: 7 1/2" HSA
FIELD ENGINEER: P. Thomas

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | CL | | Clayey sand, 10 YR 4/3<br>Trace gravel less than 2" |
| SB-3@5' | 0 | N | | 16 | 5 | SW-SM | | Silty sand w/coarse angular sand, 10 YR 4/3<br>Trace gravel less than 2" |
| SB-3@10' | 0 | N | | 14 | 10 | SW-SM | | Sand w/silt, coarse angular sand, 10 YR 4/6<br>Trace gravel less than 2" and sandstone |
| SB-3@15' | 1 | N | | 25 | 15 | | | |
| SB-3@20' | 2 | N | | 30 | 20 | | | |
| SB-3@25' | 0 | N | | 69 | 25 | | | |
| SB-3@30' | 0 | N | | 52 | 30 | | | |
| | | | | | | | | BORING TERMINATED AT 31.5' |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Groundwater Not Encountered**

WESTERN TECHNOLOGIES INC.

PROJECT: TRACT 2-1 PHASE II
REF. NO.: 3281JV227

BORING LOG

PLATE
B3

DATE DRILLED: 1-9-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. SB-4

EQUIPMENT TYPE: CME-75
DRILLING TYPE: 7 1/2" HSA
FIELD ENGINEER: P. Thomas

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | 5 | SW-SM | | Silty sand w/coarse angular sand, 10 YR 4/6 |
| SB-4@5' | 0 | N | | 7 | | | | |
| | | | | | 10 | SW-SM | | Silty sand w/coarse angular sand, 10 YR 4/6<br>Trace gravel no more than 2" |
| SB-4@10' | 0 | N | | 29 | | | | |
| | | | | | 15 | CL | | Clayey sand w/coarse angular sand, 10 YR 4/3<br>Trace gravel no more than 2" |
| SB-4@15' | 0 | N | | 16 | | | | |
| | | | | | 20 | SW-SM | | Sand w/silt, coarse angular sand, 10 YR 4/3<br>Trace gravel no more than 2" |
| SB-4@20' | 0 | N | | 12 | | | | |
| | | | | | 25 | | | |
| SB-4@25' | 0 | N | | 13 | | | | |
| | | | | | 30 | | | |
| SB-4@30' | 0 | N | | 75 | | | | |
| | | | | | | | | BORING TERMINATED AT 31.5' |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Groundwater Not Encountered**

WESTERN TECHNOLOGIES INC.

PROJECT: TRACT 2-1 PHASE II
REF. NO.: 3281JV227

PLATE
**B4**

BORING LOG

DATE DRILLED: 1-9-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. SB-5

EQUIPMENT TYPE: CME-75
DRILLING TYPE: 7 1/2" HSA
FIELD ENGINEER: P. Thomas

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | 0 | SC-SM | | Clayey sand w/silt, coarse angular sand, 10 YR 4/3<br>Trace gravel no more than 2" |
| SB-5@5' | 0 | N | | 12 | 5 | SP-SM | | Poorly-graded sand w/silt, coarse angular sand, 10 YR 4/4<br>Trace gravel no more than 2" |
| SB-5@10' | 0 | N | | 14 | 10 | | | |
| SB-5@15' | 0 | N | | 8 | 15 | CL | | Lean clay w/sand, 10 YR 4/3 |
| SB-5@20' | 0 | N | | 10 | 20 | | | |
| SB-5@25' | 0 | N | | 86 | 25 | | | |
| | | NR | | | 30 | | | No recovery due to gravel, possible cobbles<br>BORING TERMINATED AT 30' |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Groundwater Not Encountered**

**WESTERN TECHNOLOGIES INC.**

PROJECT: **TRACT 2-1 PHASE II**
REF. NO.: **3281JV227**

**BORING LOG**

PLATE
**B5**

DATE DRILLED: 1-12-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. MW-12

EQUIPMENT TYPE: STAR 30 KD
DRILLING TYPE: ODEX $6^{5}/_{8}$"
FIELD ENGINEER: D. Wagner

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | SC-SM | | 10 YR 4/3 CLAYEY SAND WITH SILT; coarse-grained, angular, with trace gravel no more than 2" |
| SB-5@5' | 0 | N | | 12 | 5 | SP-SM | | 10 YR 4/4 POORLY-GRADED SAND WITH SILT; coarse-grained, angular, with trace gravel no more than 2" |
| SB-5@10' | 0 | N | | 14 | 10 | | | |
| SB-5@15' | 0 | N | | 8 | 15 | CL | | 10 YR 4/3 LEAN CLAY WITH SAND |
| SB-5@20' | 0 | N | | 10 | 20 | | | |
| SB-5@25' | 0 | N | | 86 | 25 | | | |
| | | NR | | | 30 | GW | | 10 YR 7/8 WELL-GRADED GRAVEL; with some cobbles, loose |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Depth to groundwater ~199'**

**WESTERN TECHNOLOGIES INC.**

PROJECT: **TRACT 2-1 PHASE II**
REF. NO.: **3281JV227**

**BORING LOG**

PLATE
**B6**

DATE DRILLED: 1-12-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. MW-12

*(Cont'd)*

EQUIPMENT TYPE: STAR 30 KD
DRILLING TYPE: ODEX $6^{5}/_{8}$"
FIELD ENGINEER: D. Wagner

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | 40 | SP | | 10 YR 5/6 POORLY-GRADED SAND; with some coarse grains (10%) and some gravel (10%), loose |
| | | | | | 45 | | | |
| | | | | | 50 | | | 10 YR 4/4 medium-grained (60%), with gravel (40%) |
| | | | | | 55 | | | decreasing gravel |
| | | | | | | | | 10 YR 8/2 very fine-grained, with trace gravel |
| | | | | | 60 | ML | | 10 YR 8/2 SILT; with trace gravel, loose |
| | | | | | 65 | | | |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Depth to groundwater ~199'**

**Refer to SB-5 Boring Log for upper 30'**

**WESTERN TECHNOLOGIES INC.**

PROJECT: **TRACT 2-1 PHASE II**
REF. NO.: **3281JV227**

PLATE **B7**

**BORING LOG**

DATE DRILLED: 1-12-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. MW-12

*(Cont'd)*

EQUIPMENT TYPE: **STAR 30 KD**
DRILLING TYPE: **ODEX $6^{5}/_{8}$"**
FIELD ENGINEER: **D. Wagner**

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | 75 | | | 10 YR 1/3 trace clay<br>increasing clay |
| | | | | | | CL | | 10 YR 1/3 SILTY CLAY; 50/50 silt/clay, with trace rust-red stains, stiff |
| SB-5@80' | 0 | N | | | 80 | SP | | 10 YR 4/6 POORLY-GRADED SAND; fine-grained, loose |
| | | | | | 85 | | | |
| | | | | | 90 | | | slightly coarser grained |
| | | | | | 95 | | | some gravel ($\leq$15%) |
| SB-5@100' | 1 | N | | | 100 | | | ---------- END OF 1/10/12 ---------- |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Depth to groundwater ~199'**

**Refer to SB-5 Boring Log for upper 30'**

**WESTERN TECHNOLOGIES INC.**

PROJECT: **TRACT 2-1 PHASE II**
REF. NO.: **3281JV227**

**BORING LOG**

PLATE **B8**

DATE DRILLED: 1-12-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. MW-12

*(Cont'd)*

EQUIPMENT TYPE: **STAR 30 KD**
DRILLING TYPE: **ODEX $6^{5}/_{8}$"**
FIELD ENGINEER: **D. Wagner**

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 10 YR 4/4 more gravel (25%) |
| | | | | | 110 | | | |
| | | | | | 115 | | | decreasing gravel |
| SB-5@120' | 0 | N | | | 120 | | | 10 YR 4/4 no gravel<br>some gravel (≤10%) |
| | | | | | 125 | | | less gravel |
| | | | | | 130 | | | |
| | | | | | 135 | | | |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Depth to groundwater ~199'**

**Refer to SB-5 Boring Log for upper 30'**

**WESTERN TECHNOLOGIES INC.**

PROJECT: **TRACT 2-1 PHASE II**
REF. NO.: **3281JV227**

PLATE **B9**

**BORING LOG**

DATE DRILLED: 1-12-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. MW-12

*(Cont'd)*

EQUIPMENT TYPE: STAR 30 KD
DRILLING TYPE: ODEX $6^{5}/_{8}$"
FIELD ENGINEER: D. Wagner

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | 145 | | | |
| | | | | | 150 | | | |
| | | | | | 155 | | | |
| | | | | | 160 | | | |
| | | | | | 165 | SW | | 10 YR 4/2 WELL-GRADED SAND; with trace clay, loose |
| | | | | | 170 | | | |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Depth to groundwater ~199'**

**Refer to SB-5 Boring Log for upper 30'**

**WESTERN TECHNOLOGIES INC.**

PROJECT: **TRACT 2-1 PHASE II**
REF. NO.: **3281JV227**

PLATE **B10**

**BORING LOG**

DATE DRILLED: 1-12-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. MW-12

*(Cont'd)*

EQUIPMENT TYPE: **STAR 30 KD**
DRILLING TYPE: **ODEX 6 5/8"**
FIELD ENGINEER: **D. Wagner**

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | 180 | | | |
| | | | | | 185 | SP | | 10 YR 4/6 POORLY-GRADED SAND; fine to medium-grained, with some gravel (< 10%) and trace clay, loose |
| | | | | | 190 | ML | | 10 YR 7/3 SILT; with clay (30%) |
| | | | | | 195 | | | some cementation ▼ |
| | | | | | 200 | | | hard (reported by driller) |
| | | | | | 205 | | | |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Depth to groundwater ~199'**

**Refer to SB-5 Boring Log for upper 30'**

**WESTERN TECHNOLOGIES INC.**

PROJECT: **TRACT 2-1 PHASE II**
REF. NO.: **3281JV227**

PLATE **B11**

**BORING LOG**

DATE DRILLED: 1-12-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. MW-12

*(Cont'd)*

EQUIPMENT TYPE: STAR 30 KD
DRILLING TYPE: ODEX $6^{5}/_{8}$"
FIELD ENGINEER: D. Wagner

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | 215 | | | increasing clay |
| | | | | | 220 | | | ODEX DRILLING EQUIPMENT FAILURE<br>---------- END OF 1/11/12 ----------<br>AIR ROTARY FROM 220' TO 305' |
| | | | | | | SP | | 10 YR 6/4 POORLY-GRADED SAND; fine to medium-grained, with some gravel (≤15%) and trace clay (5%), loose |
| | | | | | 225 | | | wet (reported by driller) |
| | | | | | | | | moist (observed soil cuttings) |
| | | | | | 230 | | | |
| | | | | | | | | dry (observed soil cuttings) |
| | | | | | 235 | | | |
| | | | | | 240 | | | thin gravel lenses |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Depth to groundwater ~199'**

**Refer to SB-5 Boring Log for upper 30'**

**WESTERN TECHNOLOGIES INC.**

PROJECT: **TRACT 2-1 PHASE II**
REF. NO.: **3281JV227**

PLATE **B12**

**BORING LOG**

DATE DRILLED: 1-12-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. MW-12

*(Cont'd)*

EQUIPMENT TYPE: STAR 30 KD
DRILLING TYPE: ODEX $6^{5}/_{8}$"
FIELD ENGINEER: D. Wagner

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | 250 | | | clay lenses |
| | | | | | 255 | | | |
| | | | | | 260 | | | |
| | | | | | 265 | | | |
| | | | | | 270 | | | transition to well-graded sand |
| | | | | | 275 | SW | | 10 YR 4/3 WELL-GRADED SAND; fine to coarse-grained, with trace gravel, loose |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Depth to groundwater ~199'**

**Refer to SB-5 Boring Log for upper 30'**

**WESTERN TECHNOLOGIES INC.**

PROJECT: **TRACT 2-1 PHASE II**
REF. NO.: **3281JV227**

PLATE **B13**

**BORING LOG**

DATE DRILLED: 1-12-12
LOCATION: See Location Diagram
ELEVATION: Not Determined

# BORING NO. MW-12

*(Cont'd)*

EQUIPMENT TYPE: STAR 30 KD
DRILLING TYPE: ODEX $6^{5}/_{8}$"
FIELD ENGINEER: D. Wagner

| SAMPLE ID | PID READING | SAMPLE TYPE | SAMPLE | BLOW COUNTS | DEPTH (FEET) | USCS | GRAPHIC | SOIL DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | | | | 285 | | | |
| | | | | | 290 | | | trace clay |
| | | | | | | | | increasing gravel (20%) |
| | | | | | 295 | | | |
| | | | | | 300 | | | slightly less gravel (<15%) |
| | | | | | 305 | | | BORING TERMINATED AT 305' |
| | | | | | 310 | | | |

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

N- STANDARD PENETRATION TEST
R- RING SAMPLE
C- CORE SAMPLE
G- GRAB SAMPLE
NR- NO SAMPLE RECOVERY

NOTES: **Depth to groundwater ~199'**

**Refer to SB-5 Boring Log for upper 30'**

**WESTERN TECHNOLOGIES INC.**

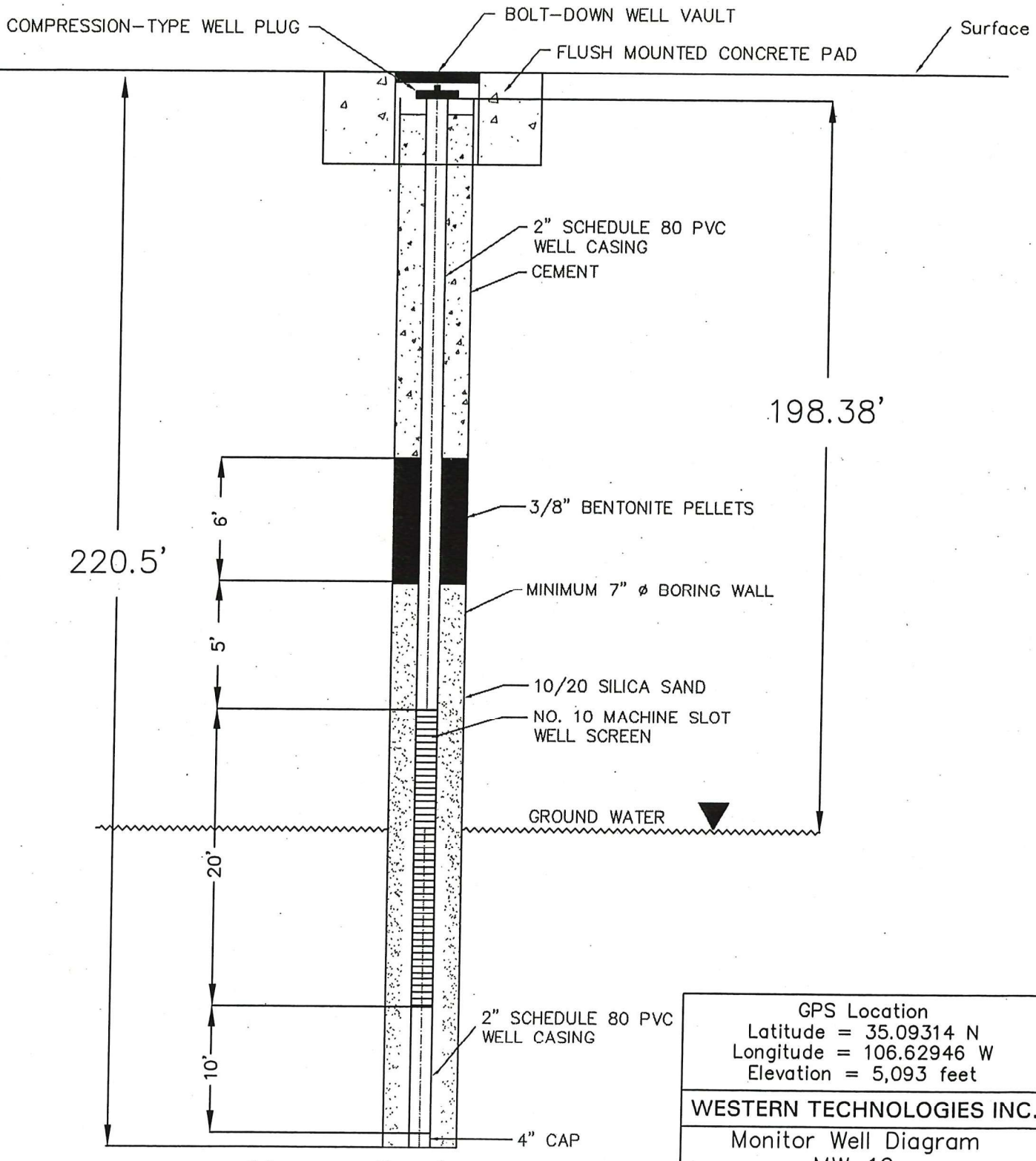
PROJECT: **TRACT 2-1 PHASE II**
REF. NO.: **3281JV227**

PLATE
**B14**

**BORING LOG**

# Monitor Well Diagram: MW-12
## Installed 1/18/12

1/23/12 DEPTH TO WATER
198.38 ft. below top of casing

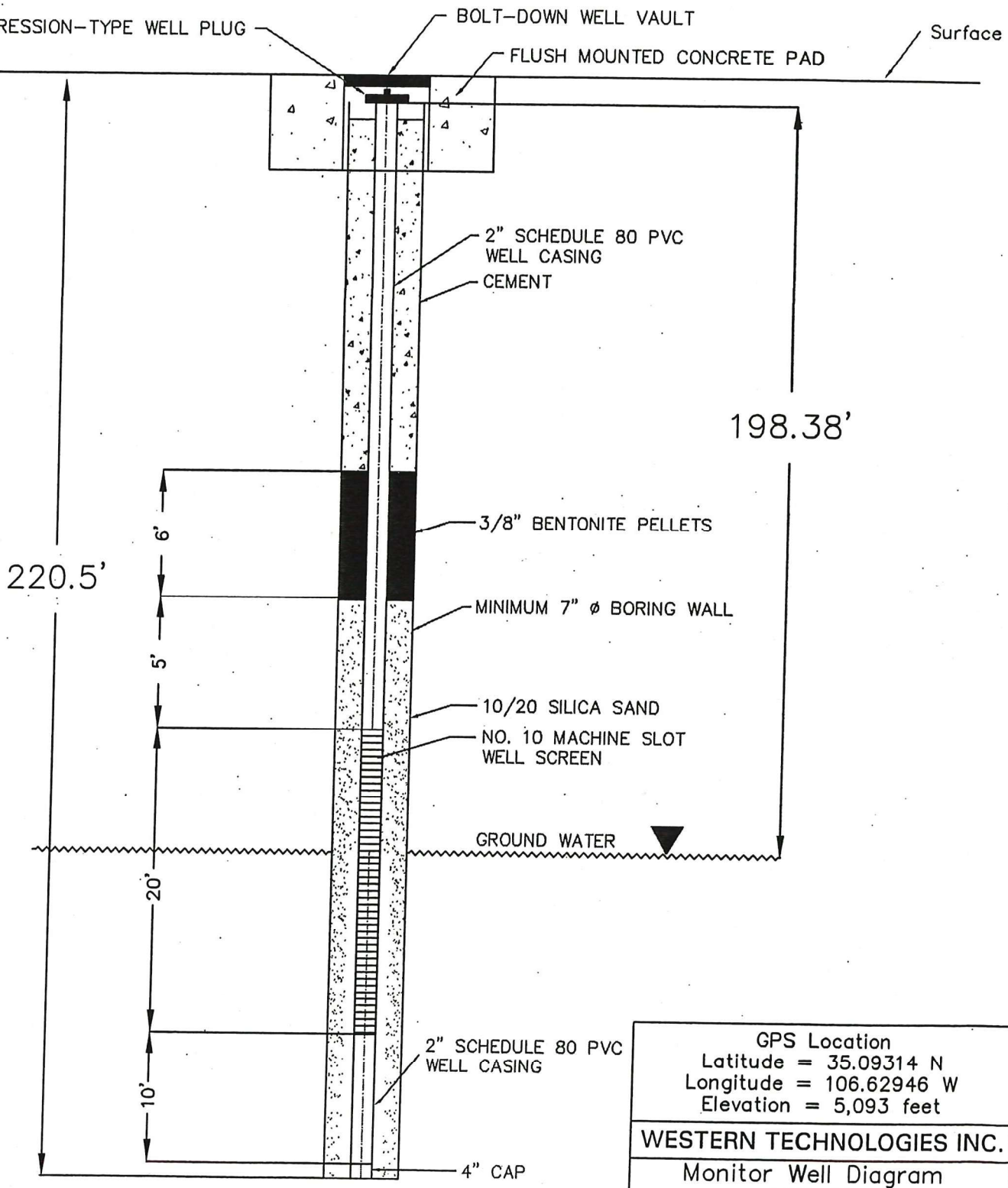



**Not to Scale**

| GPS Location |
|---|
| Latitude = 35.09314 N<br>Longitude = 106.62946 W<br>Elevation = 5,093 feet |
| WESTERN TECHNOLOGIES INC. |
| Monitor Well Diagram<br>MW-12 |
| Job No. 3281JV227 \| Plate B-15 |

# Monitor Well Diagram: MW–12
## Installed 1/18/12

1/23/12 DEPTH TO WATER
198.38 ft. below top of casing

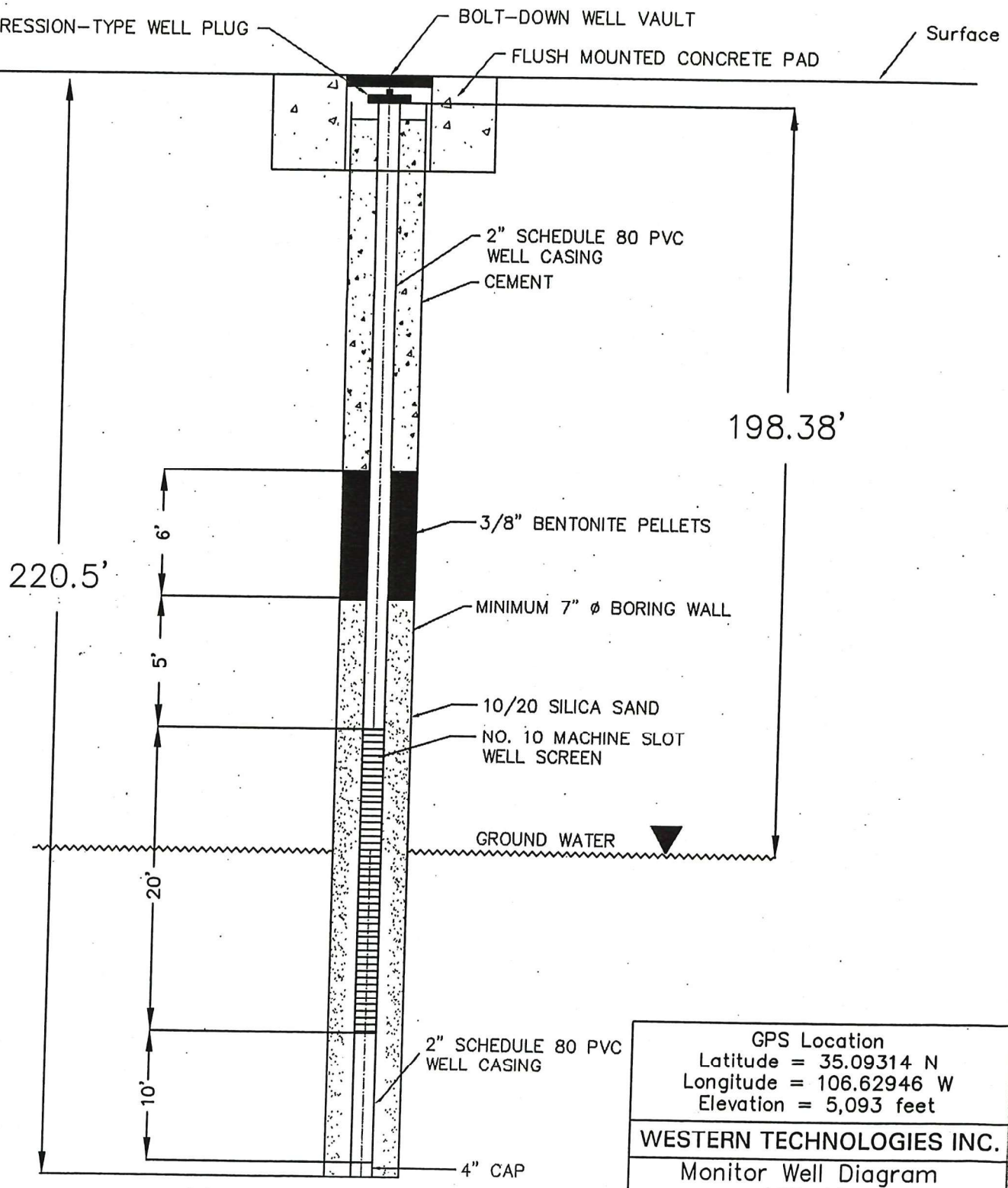



**Not to Scale**

| GPS Location |
|---|
| Latitude = 35.09314 N<br>Longitude = 106.62946 W<br>Elevation = 5,093 feet |
| WESTERN TECHNOLOGIES INC. |
| Monitor Well Diagram<br>MW–12 |
| Job No. 3281JV227 \| Plate B–15 |

# Monitor Well Diagram: MW–12
## Installed 1/18/12

1/23/12 DEPTH TO WATER
198.38 ft. below top of casing

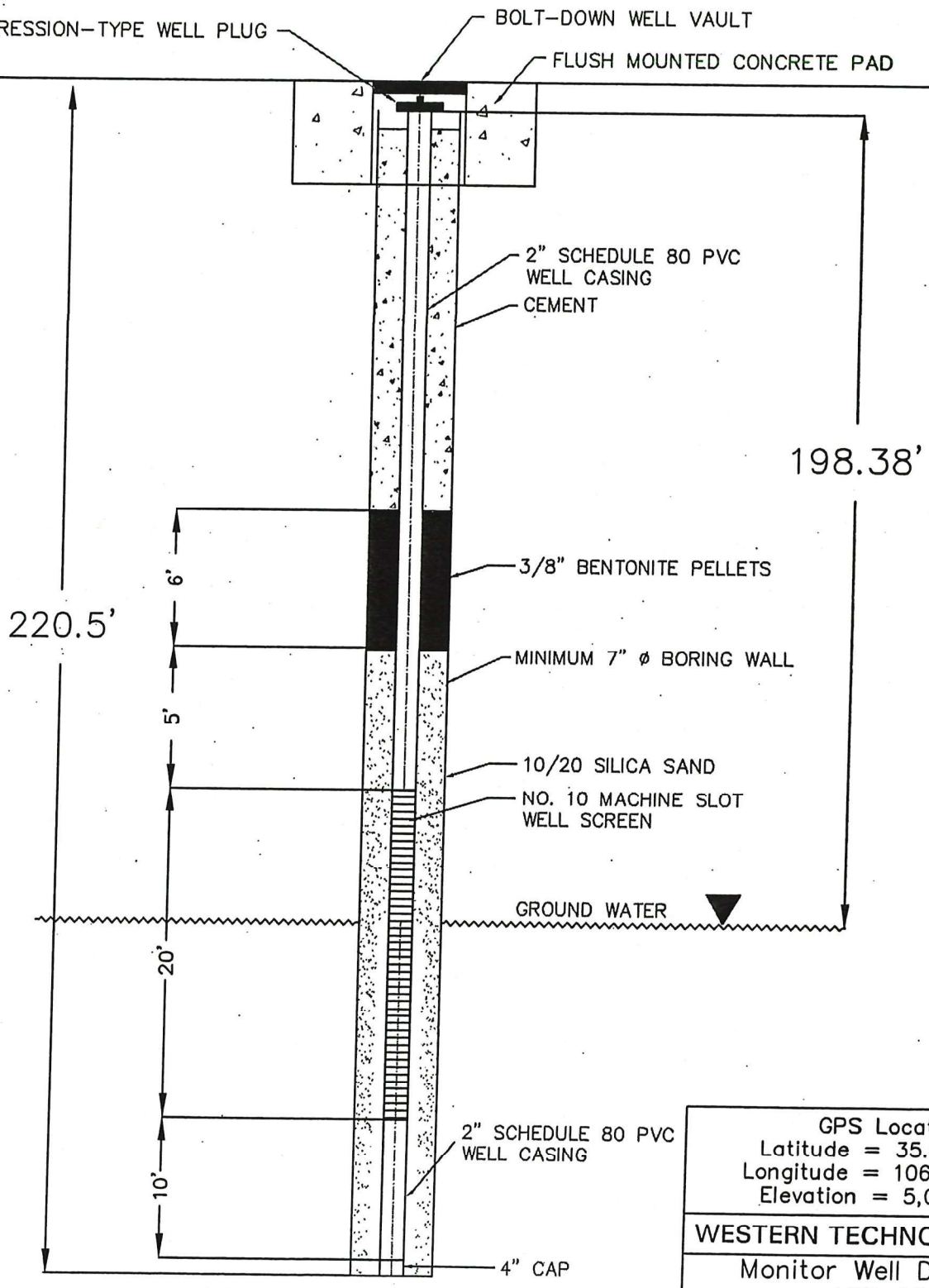



**Not to Scale**

| GPS Location |
|---|
| Latitude = 35.09314 N<br>Longitude = 106.62946 W<br>Elevation = 5,093 feet |
| WESTERN TECHNOLOGIES INC. |
| Monitor Well Diagram<br>MW–12 |
| Job No. 3281JV227 \| Plate B–15 |

# Monitor Well Diagram: MW–12
## Installed 1/18/12

1/23/12 DEPTH TO WATER
198.38 ft. below top of casing

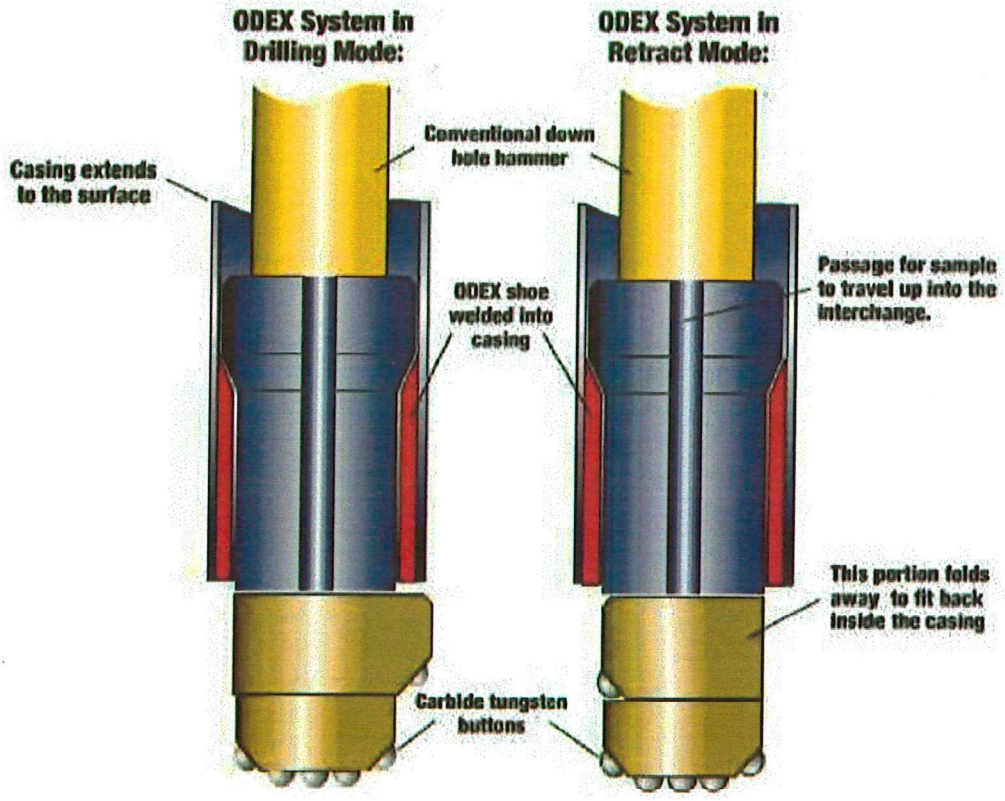



**Not to Scale**

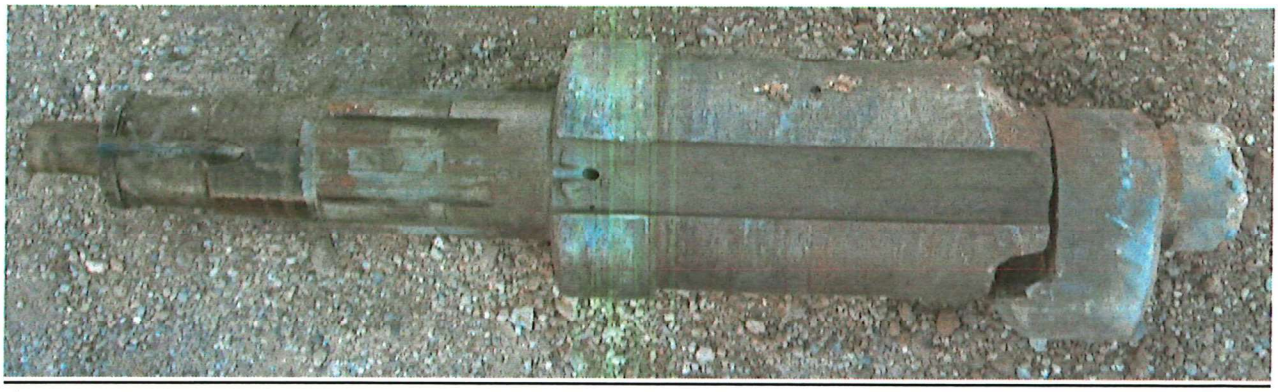
| GPS Location<br>Latitude = 35.09314 N<br>Longitude = 106.62946 W<br>Elevation = 5,093 feet | |
|---|---|
| WESTERN TECHNOLOGIES INC. | |
| Monitor Well Diagram<br>MW–12 | |
| Job No. 3281JV227 | Plate B–15 |

# ODEX Drilling Method Diagram

## Casing and Drill Bit Outside Diameter = 6 5/8 inches

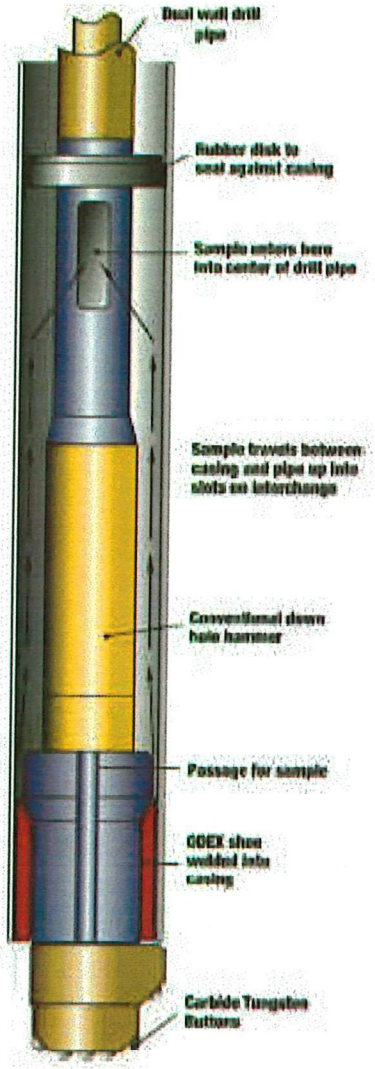



# Photograph of ODEX Drill Bit



# ODEX Drilling Method Diagram

## Casing and Drill Bit Outside Diameter = 6 5/8 inches



HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*



January 25, 2012

David Wagner
Western Technologies
8305 Washington Place NE
Albuquerque, NM 871131670
TEL: (505) 249-0224
FAX (505) 821-2963

RE: Tract Z-1 PII

OrderNo.: 1201344

Dear David Wagner:

Hall Environmental Analysis Laboratory received 34 sample(s) on 1/12/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

**Analytical Report**
Lab Order **1201344**
Date Reported: **1/25/2012**

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-001

**Client Sample ID:** SB1 @ 5'
**Collection Date:** 1/9/2012 10:00:00 AM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 1/16/2012 1:35:50 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 1/16/2012 1:35:50 PM |
| Surr: DNOP | 139 | 77.4-131 | S | %REC | 1 | 1/16/2012 1:35:50 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 3:53:12 PM |
| Surr: BFB | 95.4 | 69.7-121 | | %REC | 1 | 1/13/2012 3:53:12 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-002

**Client Sample ID:** SB-1 @ 10'
**Collection Date:** 1/9/2012 10:15:00 AM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/14/2012 4:47:56 PM |
| Motor Oil Range Organics (MRO) | ND | 51 | | mg/Kg | 1 | 1/14/2012 4:47:56 PM |
| Surr: DNOP | 88.9 | 77.4-131 | | %REC | 1 | 1/14/2012 4:47:56 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 4:22:04 PM |
| Surr: BFB | 95.2 | 69.7-121 | | %REC | 1 | 1/13/2012 4:22:04 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-003

**Client Sample ID:** SB-1 @ 15'
**Collection Date:** 1/9/2012 10:30:00 AM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/14/2012 5:21:35 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/14/2012 5:21:35 PM |
| Surr: DNOP | 94.1 | 77.4-131 | | %REC | 1 | 1/14/2012 5:21:35 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 6:17:12 PM |
| Surr: BFB | 93.0 | 69.7-121 | | %REC | 1 | 1/13/2012 6:17:12 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-004

**Client Sample ID:** SB-1 @ 20'
**Collection Date:** 1/9/2012 10:45:00 AM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 1/14/2012 5:55:27 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 1/14/2012 5:55:27 PM |
| Surr: DNOP | 87.4 | 77.4-131 | | %REC | 1 | 1/14/2012 5:55:27 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 6:46:02 PM |
| Surr: BFB | 93.5 | 69.7-121 | | %REC | 1 | 1/13/2012 6:46:02 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-005
**Matrix:** MEOH (SOIL)

**Client Sample ID:** SB-1 @ 25'
**Collection Date:** 1/9/2012 11:00:00 AM
**Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | 11 | 9.8 | | mg/Kg | 1 | 1/14/2012 6:29:34 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 1/14/2012 6:29:34 PM |
| Surr: DNOP | 102 | 77.4-131 | | %REC | 1 | 1/14/2012 6:29:34 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 7:14:51 PM |
| Surr: BFB | 95.3 | 69.7-121 | | %REC | 1 | 1/13/2012 7:14:51 PM |
| **EPA METHOD 8310: PAHS** | | | | | | Analyst: **SCC** |
| Naphthalene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| 1-Methylnaphthalene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| 2-Methylnaphthalene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Acenaphthylene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Acenaphthene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Fluorene | ND | 0.030 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Phenanthrene | ND | 0.015 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Anthracene | ND | 0.015 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Fluoranthene | ND | 0.020 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Pyrene | ND | 0.025 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Benz(a)anthracene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Chrysene | ND | 0.011 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Benzo(b)fluoranthene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Benzo(k)fluoranthene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Benzo(a)pyrene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Dibenz(a,h)anthracene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Benzo(g,h,i)perylene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Indeno(1,2,3-cd)pyrene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:02:33 PM |
| Surr: Benzo(e)pyrene | 63.1 | 35.9-103 | | %REC | 1 | 1/23/2012 5:02:33 PM |
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Methyl tert-butyl ether (MTBE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,2,4-Trimethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,3,5-Trimethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,2-Dichloroethane (EDC) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,2-Dibromoethane (EDB) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Naphthalene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1-Methylnaphthalene | ND | 0.20 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 2-Methylnaphthalene | ND | 0.20 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Acetone | ND | 0.75 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Bromobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |

**Qualifiers:**

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-005
**Matrix:** MEOH (SOIL)

**Client Sample ID:** SB-1 @ 25'
**Collection Date:** 1/9/2012 11:00:00 AM
**Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| Bromodichloromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Bromoform | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Bromomethane | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 2-Butanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Carbon disulfide | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Carbon tetrachloride | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Chlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Chloroethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Chloroform | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Chloromethane | ND | 0.15 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 2-Chlorotoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 4-Chlorotoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| cis-1,2-DCE | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| cis-1,3-Dichloropropene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,2-Dibromo-3-chloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Dibromochloromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Dibromomethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,2-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,3-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,4-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Dichlorodifluoromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,1-Dichloroethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,1-Dichloroethene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,2-Dichloropropane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,3-Dichloropropane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 2,2-Dichloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,1-Dichloropropene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Hexachlorobutadiene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 2-Hexanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Isopropylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 4-Isopropyltoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 4-Methyl-2-pentanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Methylene chloride | ND | 0.15 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| n-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| n-Propylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| sec-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Styrene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| tert-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,1,1,2-Tetrachloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,1,2,2-Tetrachloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Tetrachloroethene (PCE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| trans-1,2-DCE | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |

**Qualifiers:**

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-005

**Client Sample ID:** SB-1 @ 25'
**Collection Date:** 1/9/2012 11:00:00 AM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| trans-1,3-Dichloropropene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,2,3-Trichlorobenzene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,2,4-Trichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,1,1-Trichloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,1,2-Trichloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Trichloroethene (TCE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Trichlorofluoromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| 1,2,3-Trichloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Vinyl chloride | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 11:56:23 AM |
| Surr: 1,2-Dichloroethane-d4 | 90.4 | 70-130 | | %REC | 1 | 1/20/2012 11:56:23 AM |
| Surr: 4-Bromofluorobenzene | 93.0 | 70-130 | | %REC | 1 | 1/20/2012 11:56:23 AM |
| Surr: Dibromofluoromethane | 95.9 | 71.7-132 | | %REC | 1 | 1/20/2012 11:56:23 AM |
| Surr: Toluene-d8 | 98.4 | 70-130 | | %REC | 1 | 1/20/2012 11:56:23 AM |

**Qualifiers:**

| | |
|---|---|
| */X | Value exceeds Maximum Contaminant Level. |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| R | RPD outside accepted recovery limits |
| S | Spike Recovery outside accepted recovery limits |
| B | Analyte detected in the associated Method Blank |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| RL | Reporting Detection Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-006

**Client Sample ID:** SB-1 @ 30'
**Collection Date:** 1/9/2012 11:30:00 AM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | 17 | 9.7 | | mg/Kg | 1 | 1/14/2012 7:03:59 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 1/14/2012 7:03:59 PM |
| Surr: DNOP | 103 | 77.4-131 | | %REC | 1 | 1/14/2012 7:03:59 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 7:43:41 PM |
| Surr: BFB | 95.6 | 69.7-121 | | %REC | 1 | 1/13/2012 7:43:41 PM |
| **EPA METHOD 8310: PAHS** | | | | | | Analyst: **SCC** |
| Naphthalene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| 1-Methylnaphthalene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| 2-Methylnaphthalene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Acenaphthylene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Acenaphthene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Fluorene | ND | 0.030 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Phenanthrene | ND | 0.015 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Anthracene | ND | 0.015 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Fluoranthene | ND | 0.020 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Pyrene | ND | 0.025 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Benz(a)anthracene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Chrysene | ND | 0.011 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Benzo(b)fluoranthene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Benzo(k)fluoranthene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Benzo(a)pyrene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Dibenz(a,h)anthracene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Benzo(g,h,i)perylene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Indeno(1,2,3-cd)pyrene | ND | 0.010 | | mg/Kg | 1 | 1/23/2012 5:23:52 PM |
| Surr: Benzo(e)pyrene | 59.8 | 35.9-103 | | %REC | 1 | 1/23/2012 5:23:52 PM |
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,2,4-Trimethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,3,5-Trimethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Naphthalene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1-Methylnaphthalene | ND | 0.20 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 2-Methylnaphthalene | ND | 0.20 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Acetone | ND | 0.75 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Bromobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |

**Qualifiers:**

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-006

**Client Sample ID:** SB-1 @ 30'
**Collection Date:** 1/9/2012 11:30:00 AM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| Bromodichloromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Bromoform | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Bromomethane | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 2-Butanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Carbon disulfide | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Carbon tetrachloride | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Chlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Chloroethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Chloroform | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Chloromethane | ND | 0.15 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 2-Chlorotoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 4-Chlorotoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| cis-1,2-DCE | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| cis-1,3-Dichloropropene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Dibromochloromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Dibromomethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,2-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,3-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,4-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Dichlorodifluoromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,1-Dichloroethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,1-Dichloroethene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,2-Dichloropropane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,3-Dichloropropane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 2,2-Dichloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,1-Dichloropropene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Hexachlorobutadiene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 2-Hexanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Isopropylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 4-Isopropyltoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 4-Methyl-2-pentanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Methylene chloride | ND | 0.15 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| n-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| n-Propylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| sec-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Styrene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| tert-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Tetrachloroethene (PCE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| trans-1,2-DCE | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |

**Qualifiers:**

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-006

**Client Sample ID:** SB-1 @ 30'
**Collection Date:** 1/9/2012 11:30:00 AM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| trans-1,3-Dichloropropene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,2,3-Trichlorobenzene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,2,4-Trichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,1,1-Trichloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,1,2-Trichloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Trichloroethene (TCE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Trichlorofluoromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| 1,2,3-Trichloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Vinyl chloride | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:24:25 PM |
| Surr: 1,2-Dichloroethane-d4 | 93.5 | 70-130 | | %REC | 1 | 1/20/2012 12:24:25 PM |
| Surr: 4-Bromofluorobenzene | 97.0 | 70-130 | | %REC | 1 | 1/20/2012 12:24:25 PM |
| Surr: Dibromofluoromethane | 97.5 | 71.7-132 | | %REC | 1 | 1/20/2012 12:24:25 PM |
| Surr: Toluene-d8 | 98.6 | 70-130 | | %REC | 1 | 1/20/2012 12:24:25 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-007

**Client Sample ID:** SB-2 @ 5'
**Collection Date:** 1/9/2012 12:00:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/16/2012 3:19:55 PM |
| Motor Oil Range Organics (MRO) | ND | 51 | | mg/Kg | 1 | 1/16/2012 3:19:55 PM |
| Surr: DNOP | 112 | 77.4-131 | | %REC | 1 | 1/16/2012 3:19:55 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 8:12:31 PM |
| Surr: BFB | 94.8 | 69.7-121 | | %REC | 1 | 1/13/2012 8:12:31 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-008

**Client Sample ID:** SB-2 @ 10'
**Collection Date:** 1/9/2012 12:15:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 1/14/2012 8:12:31 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 1/14/2012 8:12:31 PM |
| Surr: DNOP | 106 | 77.4-131 | | %REC | 1 | 1/14/2012 8:12:31 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 8:41:15 PM |
| Surr: BFB | 95.7 | 69.7-121 | | %REC | 1 | 1/13/2012 8:41:15 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-009

**Client Sample ID:** SB-2 @ 15'
**Collection Date:** 1/9/2012 12:30:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 1/14/2012 8:46:44 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 1/14/2012 8:46:44 PM |
| Surr: DNOP | 150 | 77.4-131 | S | %REC | 1 | 1/14/2012 8:46:44 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 9:10:03 PM |
| Surr: BFB | 94.3 | 69.7-121 | | %REC | 1 | 1/13/2012 9:10:03 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-010

**Client Sample ID:** SB-2 @ 20'
**Collection Date:** 1/9/2012 12:45:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/14/2012 9:20:42 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/14/2012 9:20:42 PM |
| Surr: DNOP | 90.5 | 77.4-131 | | %REC | 1 | 1/14/2012 9:20:42 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 9:38:49 PM |
| Surr: BFB | 95.1 | 69.7-121 | | %REC | 1 | 1/13/2012 9:38:49 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-011

**Client Sample ID:** SB-2 @ 25'
**Collection Date:** 1/9/2012 1:00:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 1/14/2012 9:54:28 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/14/2012 9:54:28 PM |
| Surr: DNOP | 90.0 | 77.4-131 | | %REC | 1 | 1/14/2012 9:54:28 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 10:07:32 PM |
| Surr: BFB | 96.0 | 69.7-121 | | %REC | 1 | 1/13/2012 10:07:32 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-012

**Client Sample ID:** SB-2 @ 30'
**Collection Date:** 1/9/2012 1:15:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 9.7 | | mg/Kg | 1 | 1/14/2012 10:27:49 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 1/14/2012 10:27:49 PM |
| Surr: DNOP | 84.0 | 77.4-131 | | %REC | 1 | 1/14/2012 10:27:49 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 10:36:24 PM |
| Surr: BFB | 94.2 | 69.7-121 | | %REC | 1 | 1/13/2012 10:36:24 PM |

**Qualifiers:**

| | |
|---|---|
| */X | Value exceeds Maximum Contaminant Level. |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| R | RPD outside accepted recovery limits |
| S | Spike Recovery outside accepted recovery limits |
| B | Analyte detected in the associated Method Blank |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| RL | Reporting Detection Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-013

**Client Sample ID:** SB3 @ 5'
**Collection Date:** 1/9/2012 1:30:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/16/2012 3:54:51 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/16/2012 3:54:51 PM |
| Surr: DNOP | 138 | 77.4-131 | S | %REC | 1 | 1/16/2012 3:54:51 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 11:05:11 PM |
| Surr: BFB | 94.9 | 69.7-121 | | %REC | 1 | 1/13/2012 11:05:11 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-014

**Client Sample ID:** SB3 @ 10'
**Collection Date:** 1/9/2012 1:45:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/16/2012 4:29:18 PM |
| Motor Oil Range Organics (MRO) | ND | 51 | | mg/Kg | 1 | 1/16/2012 4:29:18 PM |
| Surr: DNOP | 134 | 77.4-131 | S | %REC | 1 | 1/16/2012 4:29:18 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 11:34:00 PM |
| Surr: BFB | 95.3 | 69.7-121 | | %REC | 1 | 1/13/2012 11:34:00 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-015

**Client Sample ID:** SB3 @ 15'
**Collection Date:** 1/9/2012 2:00:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/14/2012 11:01:26 PM |
| Motor Oil Range Organics (MRO) | ND | 51 | | mg/Kg | 1 | 1/14/2012 11:01:26 PM |
| Surr: DNOP | 88.7 | 77.4-131 | | %REC | 1 | 1/14/2012 11:01:26 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/14/2012 12:02:51 AM |
| Surr: BFB | 95.3 | 69.7-121 | | %REC | 1 | 1/14/2012 12:02:51 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Client Sample ID:** SB3 @ 20'
**Project:** Tract Z-1 PII
**Collection Date:** 1/9/2012 2:15:00 PM
**Lab ID:** 1201344-016
**Matrix:** MEOH (SOIL)
**Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/14/2012 11:34:50 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/14/2012 11:34:50 PM |
| Surr: DNOP | 85.5 | 77.4-131 | | %REC | 1 | 1/14/2012 11:34:50 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 1/14/2012 12:31:37 AM |
| Surr: BFB | 91.3 | 69.7-121 | | %REC | 1 | 1/14/2012 12:31:37 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-017

**Client Sample ID:** SB3 @ 25'
**Collection Date:** 1/9/2012 2:30:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 12:08:26 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/15/2012 12:08:26 AM |
| Surr: DNOP | 85.1 | 77.4-131 | | %REC | 1 | 1/15/2012 12:08:26 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/14/2012 1:00:21 AM |
| Surr: BFB | 95.3 | 69.7-121 | | %REC | 1 | 1/14/2012 1:00:21 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-018

**Client Sample ID:** SB3 @ 30'
**Collection Date:** 1/9/2012 2:45:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 1/15/2012 12:42:03 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/15/2012 12:42:03 AM |
| Surr: DNOP | 87.4 | 77.4-131 | | %REC | 1 | 1/15/2012 12:42:03 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/14/2012 2:55:30 AM |
| Surr: BFB | 94.8 | 69.7-121 | | %REC | 1 | 1/14/2012 2:55:30 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-019

**Client Sample ID:** SB4 @ 5'
**Collection Date:** 1/9/2012 3:00:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/16/2012 5:03:36 PM |
| Motor Oil Range Organics (MRO) | ND | 52 | | mg/Kg | 1 | 1/16/2012 5:03:36 PM |
| Surr: DNOP | 142 | 77.4-131 | S | %REC | 1 | 1/16/2012 5:03:36 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/14/2012 3:24:16 AM |
| Surr: BFB | 95.9 | 69.7-121 | | %REC | 1 | 1/14/2012 3:24:16 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-020

**Client Sample ID:** SB4 @ 10'
**Collection Date:** 1/9/2012 3:15:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 1/15/2012 1:15:25 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 1/15/2012 1:15:25 AM |
| Surr: DNOP | 89.6 | 77.4-131 | | %REC | 1 | 1/15/2012 1:15:25 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/14/2012 3:53:04 AM |
| Surr: BFB | 94.9 | 69.7-121 | | %REC | 1 | 1/14/2012 3:53:04 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-021

**Client Sample ID:** SB4 @ 15'
**Collection Date:** 1/9/2012 3:30:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 2:22:22 AM |
| Motor Oil Range Organics (MRO) | ND | 51 | | mg/Kg | 1 | 1/15/2012 2:22:22 AM |
| Surr: DNOP | 89.8 | 77.4-131 | | %REC | 1 | 1/15/2012 2:22:22 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/12/2012 7:43:50 PM |
| Surr: BFB | 102 | 69.7-121 | | %REC | 1 | 1/12/2012 7:43:50 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-022

**Client Sample ID:** SB4 @ 20'
**Collection Date:** 1/9/2012 3:45:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 2:55:46 AM |
| Motor Oil Range Organics (MRO) | ND | 51 | | mg/Kg | 1 | 1/15/2012 2:55:46 AM |
| Surr: DNOP | 86.8 | 77.4-131 | | %REC | 1 | 1/15/2012 2:55:46 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/12/2012 8:14:01 PM |
| Surr: BFB | 95.6 | 69.7-121 | | %REC | 1 | 1/12/2012 8:14:01 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-023

**Client Sample ID:** SB4 @ 25'
**Collection Date:** 1/9/2012 4:00:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 3:29:08 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/15/2012 3:29:08 AM |
| Surr: DNOP | 92.0 | 77.4-131 | | %REC | 1 | 1/15/2012 3:29:08 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/12/2012 8:44:08 PM |
| Surr: BFB | 99.6 | 69.7-121 | | %REC | 1 | 1/12/2012 8:44:08 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-024

**Client Sample ID:** SB4 @ 30'
**Collection Date:** 1/9/2012 4:15:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 4:02:28 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/15/2012 4:02:28 AM |
| Surr: DNOP | 79.5 | 77.4-131 | | %REC | 1 | 1/15/2012 4:02:28 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/12/2012 9:14:18 PM |
| Surr: BFB | 78.8 | 69.7-121 | | %REC | 1 | 1/12/2012 9:14:18 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-025

**Client Sample ID:** SB5 @ 5'
**Collection Date:** 1/9/2012 4:30:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 4:36:04 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/15/2012 4:36:04 AM |
| Surr: DNOP | 87.4 | 77.4-131 | | %REC | 1 | 1/15/2012 4:36:04 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 1:45:47 AM |
| Surr: BFB | 107 | 69.7-121 | | %REC | 1 | 1/13/2012 1:45:47 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-026

**Client Sample ID:** SB5 @ 10'
**Collection Date:** 1/9/2012 4:45:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 5:09:27 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/15/2012 5:09:27 AM |
| Surr: DNOP | 86.9 | 77.4-131 | | %REC | 1 | 1/15/2012 5:09:27 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 2:15:55 AM |
| Surr: BFB | 80.3 | 69.7-121 | | %REC | 1 | 1/13/2012 2:15:55 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-027

**Client Sample ID:** SB5 @ 15'
**Collection Date:** 1/9/2012 5:00:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 5:43:08 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/15/2012 5:43:08 AM |
| Surr: DNOP | 85.0 | 77.4-131 | | %REC | 1 | 1/15/2012 5:43:08 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 2:46:08 AM |
| Surr: BFB | 99.8 | 69.7-121 | | %REC | 1 | 1/13/2012 2:46:08 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-028

**Client Sample ID:** SB5 @ 20'
**Collection Date:** 1/9/2012 5:15:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 1/15/2012 6:16:45 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 1/15/2012 6:16:45 AM |
| Surr: DNOP | 82.7 | 77.4-131 | | %REC | 1 | 1/15/2012 6:16:45 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 3:16:20 AM |
| Surr: BFB | 91.7 | 69.7-121 | | %REC | 1 | 1/13/2012 3:16:20 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Client Sample ID:** SB5 @ 25'
**Project:** Tract Z-1 PII
**Collection Date:** 1/9/2012 5:30:00 PM
**Lab ID:** 1201344-029
**Matrix:** MEOH (SOIL)
**Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 6:50:07 AM |
| Motor Oil Range Organics (MRO) | ND | 51 | | mg/Kg | 1 | 1/15/2012 6:50:07 AM |
| Surr: DNOP | 84.7 | 77.4-131 | | %REC | 1 | 1/15/2012 6:50:07 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 3:46:33 AM |
| Surr: BFB | 89.1 | 69.7-121 | | %REC | 1 | 1/13/2012 3:46:33 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-030

**Client Sample ID:** SB5 @ 60'
**Collection Date:** 1/10/2012 1:30:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 7:23:28 AM |
| Motor Oil Range Organics (MRO) | ND | 51 | | mg/Kg | 1 | 1/15/2012 7:23:28 AM |
| Surr: DNOP | 84.5 | 77.4-131 | | %REC | 1 | 1/15/2012 7:23:28 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 4:16:48 AM |
| Surr: BFB | 89.1 | 69.7-121 | | %REC | 1 | 1/13/2012 4:16:48 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-031

**Client Sample ID:** SB5 @ 80'
**Collection Date:** 1/10/2012 3:20:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 8:30:25 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 1/15/2012 8:30:25 AM |
| Surr: DNOP | 84.8 | 77.4-131 | | %REC | 1 | 1/15/2012 8:30:25 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 4:46:51 AM |
| Surr: BFB | 78.1 | 69.7-121 | | %REC | 1 | 1/13/2012 4:46:51 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Client Sample ID:** SB5 @ 100'
**Project:** Tract Z-1 PII
**Collection Date:** 1/10/2012 5:00:00 PM
**Lab ID:** 1201344-032
**Matrix:** MEOH (SOIL)
**Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | 200 | 100 | | mg/Kg | 10 | 1/15/2012 2:43:16 PM |
| Motor Oil Range Organics (MRO) | 1,000 | 500 | | mg/Kg | 10 | 1/15/2012 2:43:16 PM |
| Surr: DNOP | 123 | 77.4-131 | | %REC | 10 | 1/15/2012 2:43:16 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 5:17:00 AM |
| Surr: BFB | 95.9 | 69.7-121 | | %REC | 1 | 1/13/2012 5:17:00 AM |
| **EPA METHOD 8310: PAHS** | | | | | | Analyst: **SCC** |
| Naphthalene | ND | 2.5 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| 1-Methylnaphthalene | ND | 2.5 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| 2-Methylnaphthalene | ND | 2.5 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Acenaphthylene | ND | 2.5 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Acenaphthene | ND | 2.5 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Fluorene | ND | 0.30 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Phenanthrene | ND | 0.15 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Anthracene | ND | 0.15 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Fluoranthene | ND | 0.20 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Pyrene | ND | 0.25 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Benz(a)anthracene | ND | 0.10 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Chrysene | ND | 0.11 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Benzo(b)fluoranthene | ND | 0.10 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Benzo(k)fluoranthene | ND | 0.10 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Benzo(a)pyrene | ND | 0.10 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Dibenz(a,h)anthracene | ND | 0.10 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Benzo(g,h,i)perylene | ND | 0.10 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | | mg/Kg | 10 | 1/23/2012 6:49:09 PM |
| Surr: Benzo(e)pyrene | 77.0 | 35.9-103 | | %REC | 10 | 1/23/2012 6:49:09 PM |
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,2,4-Trimethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,3,5-Trimethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Naphthalene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1-Methylnaphthalene | ND | 0.20 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 2-Methylnaphthalene | ND | 0.20 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Acetone | ND | 0.75 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Bromobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |

**Qualifiers:**
- */X Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-032

**Client Sample ID:** SB5 @ 100'
**Collection Date:** 1/10/2012 5:00:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| Bromodichloromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Bromoform | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Bromomethane | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 2-Butanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Carbon disulfide | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Carbon tetrachloride | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Chlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Chloroethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Chloroform | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Chloromethane | ND | 0.15 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 2-Chlorotoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 4-Chlorotoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| cis-1,2-DCE | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| cis-1,3-Dichloropropene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Dibromochloromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Dibromomethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,2-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,3-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,4-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Dichlorodifluoromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,1-Dichloroethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,1-Dichloroethene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,2-Dichloropropane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,3-Dichloropropane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 2,2-Dichloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,1-Dichloropropene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Hexachlorobutadiene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 2-Hexanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Isopropylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 4-Isopropyltoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 4-Methyl-2-pentanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Methylene chloride | ND | 0.15 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| n-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| n-Propylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| sec-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Styrene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| tert-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Tetrachloroethene (PCE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| trans-1,2-DCE | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |

**Qualifiers:**

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-032

**Client Sample ID:** SB5 @ 100'
**Collection Date:** 1/10/2012 5:00:00 PM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| trans-1,3-Dichloropropene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,2,3-Trichlorobenzene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,2,4-Trichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,1,1-Trichloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,1,2-Trichloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Trichloroethene (TCE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Trichlorofluoromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| 1,2,3-Trichloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Vinyl chloride | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 12:52:23 PM |
| Surr: 1,2-Dichloroethane-d4 | 92.6 | 70-130 | | %REC | 1 | 1/20/2012 12:52:23 PM |
| Surr: 4-Bromofluorobenzene | 96.7 | 70-130 | | %REC | 1 | 1/20/2012 12:52:23 PM |
| Surr: Dibromofluoromethane | 98.6 | 71.7-132 | | %REC | 1 | 1/20/2012 12:52:23 PM |
| Surr: Toluene-d8 | 97.3 | 70-130 | | %REC | 1 | 1/20/2012 12:52:23 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-033

**Client Sample ID:** SB5 @ 120'
**Collection Date:** 1/10/2012 9:20:00 AM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | 27 | 10 | | mg/Kg | 1 | 1/15/2012 12:26:43 PM |
| Motor Oil Range Organics (MRO) | 59 | 52 | | mg/Kg | 1 | 1/15/2012 12:26:43 PM |
| Surr: DNOP | 122 | 77.4-131 | | %REC | 1 | 1/15/2012 12:26:43 PM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 1/13/2012 5:47:10 AM |
| Surr: BFB | 98.9 | 69.7-121 | | %REC | 1 | 1/13/2012 5:47:10 AM |
| **EPA METHOD 8310: PAHS** | | | | | | Analyst: **SCC** |
| Naphthalene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| 1-Methylnaphthalene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| 2-Methylnaphthalene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Acenaphthylene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Acenaphthene | ND | 0.25 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Fluorene | ND | 0.030 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Phenanthrene | ND | 0.015 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Anthracene | ND | 0.015 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Fluoranthene | ND | 0.020 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Pyrene | ND | 0.025 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Benz(a)anthracene | ND | 0.0099 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Chrysene | ND | 0.011 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Benzo(b)fluoranthene | ND | 0.0099 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Benzo(k)fluoranthene | ND | 0.0099 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Benzo(a)pyrene | ND | 0.0099 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Dibenz(a,h)anthracene | ND | 0.0099 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Benzo(g,h,i)perylene | ND | 0.0099 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Indeno(1,2,3-cd)pyrene | ND | 0.0099 | | mg/Kg | 1 | 1/23/2012 6:27:52 PM |
| Surr: Benzo(e)pyrene | 64.8 | 35.9-103 | | %REC | 1 | 1/23/2012 6:27:52 PM |
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Methyl tert-butyl ether (MTBE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,2,4-Trimethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,3,5-Trimethylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,2-Dichloroethane (EDC) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,2-Dibromoethane (EDB) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Naphthalene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1-Methylnaphthalene | ND | 0.20 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 2-Methylnaphthalene | ND | 0.20 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Acetone | ND | 0.75 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Bromobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |

**Qualifiers:**

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-033
**Client Sample ID:** SB5 @ 120'
**Collection Date:** 1/10/2012 9:20:00 AM
**Matrix:** MEOH (SOIL)
**Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| Bromodichloromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Bromoform | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Bromomethane | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 2-Butanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Carbon disulfide | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Carbon tetrachloride | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Chlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Chloroethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Chloroform | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Chloromethane | ND | 0.15 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 2-Chlorotoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 4-Chlorotoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| cis-1,2-DCE | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| cis-1,3-Dichloropropene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,2-Dibromo-3-chloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Dibromochloromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Dibromomethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,2-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,3-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,4-Dichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Dichlorodifluoromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,1-Dichloroethane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,1-Dichloroethene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,2-Dichloropropane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,3-Dichloropropane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 2,2-Dichloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,1-Dichloropropene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Hexachlorobutadiene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 2-Hexanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Isopropylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 4-Isopropyltoluene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 4-Methyl-2-pentanone | ND | 0.50 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Methylene chloride | ND | 0.15 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| n-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| n-Propylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| sec-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Styrene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| tert-Butylbenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,1,1,2-Tetrachloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,1,2,2-Tetrachloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Tetrachloroethene (PCE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| trans-1,2-DCE | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |

**Qualifiers:**
- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-033

**Client Sample ID:** SB5 @ 120'
**Collection Date:** 1/10/2012 9:20:00 AM
**Matrix:** MEOH (SOIL) **Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **NSB** |
| trans-1,3-Dichloropropene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,2,3-Trichlorobenzene | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,2,4-Trichlorobenzene | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,1,1-Trichloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,1,2-Trichloroethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Trichloroethene (TCE) | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Trichlorofluoromethane | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| 1,2,3-Trichloropropane | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Vinyl chloride | ND | 0.050 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 1/20/2012 1:20:45 PM |
| Surr: 1,2-Dichloroethane-d4 | 90.2 | 70-130 | | %REC | 1 | 1/20/2012 1:20:45 PM |
| Surr: 4-Bromofluorobenzene | 99.6 | 70-130 | | %REC | 1 | 1/20/2012 1:20:45 PM |
| Surr: Dibromofluoromethane | 99.5 | 71.7-132 | | %REC | 1 | 1/20/2012 1:20:45 PM |
| Surr: Toluene-d8 | 98.3 | 70-130 | | %REC | 1 | 1/20/2012 1:20:45 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201344-034 **Matrix:** SOIL

**Client Sample ID:** DUP
**Collection Date:** 1/11/2012 9:20:00 AM
**Received Date:** 1/12/2012 1:13:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015B: DIESEL RANGE ORGANICS** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 1/15/2012 10:11:13 AM |
| Motor Oil Range Organics (MRO) | ND | 51 | | mg/Kg | 1 | 1/15/2012 10:11:13 AM |
| Surr: DNOP | 83.7 | 77.4-131 | | %REC | 1 | 1/15/2012 10:11:13 AM |
| **EPA METHOD 8015B: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 1/13/2012 6:43:21 PM |
| Surr: BFB | 79.4 | 69.7-121 | | %REC | 1 | 1/13/2012 6:43:21 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1201344**

***25-Jan-12***

**Client:** Western Technologies

**Project:** Tract Z-1 PII

| Sample ID **MB-254** | SampType: **MBLK** | TestCode: **EPA Method 8015B: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **254** | RunNo: **379** |
| Prep Date: **1/13/2012** | Analysis Date: **1/14/2012** | SeqNo: **11236** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.5 | | 10.00 | | 85.4 | 77.4 | 131 | | | |

| Sample ID **LCS-254** | SampType: **LCS** | TestCode: **EPA Method 8015B: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **254** | RunNo: **379** |
| Prep Date: **1/13/2012** | Analysis Date: **1/14/2012** | SeqNo: **11237** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 34 | 10 | 50.00 | 0 | 67.3 | 62.7 | 139 | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 88.3 | 77.4 | 131 | | | |

| Sample ID **MB-255** | SampType: **MBLK** | TestCode: **EPA Method 8015B: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **255** | RunNo: **379** |
| Prep Date: **1/13/2012** | Analysis Date: **1/14/2012** | SeqNo: **11238** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.0 | | 10.00 | | 89.9 | 77.4 | 131 | | | |

| Sample ID **LCS-255** | SampType: **LCS** | TestCode: **EPA Method 8015B: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **255** | RunNo: **379** |
| Prep Date: **1/13/2012** | Analysis Date: **1/14/2012** | SeqNo: **11239** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 37 | 10 | 50.00 | 0 | 74.2 | 62.7 | 139 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 94.2 | 77.4 | 131 | | | |

**Qualifiers:**

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1201344**

***25-Jan-12***

**Client:** Western Technologies

**Project:** Tract Z-1 PII

| Sample ID **5ML-RB** | SampType: **MBLK** | TestCode: **EPA Method 8015B: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **R366** | RunNo: **366** |
| Prep Date: | Analysis Date: **1/13/2012** | SeqNo: **10982** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 930 | | 1,000 | | 92.9 | 69.7 | 121 | | | |

| Sample ID **2.5UG GRO LCS** | SampType: **LCS** | TestCode: **EPA Method 8015B: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **R366** | RunNo: **366** |
| Prep Date: | Analysis Date: **1/13/2012** | SeqNo: **10984** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 28 | 5.0 | 25.00 | 0 | 113 | 86.4 | 132 | | | |
| Surr: BFB | 1,000 | | 1,000 | | 101 | 69.7 | 121 | | | |

| Sample ID **MB-245** | SampType: **MBLK** | TestCode: **EPA Method 8015B: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **245** | RunNo: **389** |
| Prep Date: **1/12/2012** | Analysis Date: **1/13/2012** | SeqNo: **11566** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 950 | | 1,000 | | 95.3 | 69.7 | 121 | | | |

| Sample ID **LCS-245** | SampType: **LCS** | TestCode: **EPA Method 8015B: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **245** | RunNo: **389** |
| Prep Date: **1/12/2012** | Analysis Date: **1/13/2012** | SeqNo: **11569** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 28 | 5.0 | 25.00 | 0 | 110 | 86.4 | 132 | | | |
| Surr: BFB | 1,000 | | 1,000 | | 102 | 69.7 | 121 | | | |

**Qualifiers:**

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- ND Not Detected at the Reporting Limit
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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1201344**

***25-Jan-12***

**Client:** Western Technologies

**Project:** Tract Z-1 PII

| Sample ID **mb-245** | SampType: **MBLK** | TestCode: **EPA Method 8260B: VOLATILES** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **245** | RunNo: **386** |
| Prep Date: **1/12/2012** | Analysis Date: **1/13/2012** | SeqNo: **11382** Units: **%REC** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 0.45 | | 0.5000 | | 89.5 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.48 | | 0.5000 | | 96.5 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.55 | | 0.5000 | | 110 | 71.7 | 132 | | | |
| Surr: Toluene-d8 | 0.48 | | 0.5000 | | 96.3 | 70 | 130 | | | |

| Sample ID **lcs-245** | SampType: **LCS** | TestCode: **EPA Method 8260B: VOLATILES** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **245** | RunNo: **386** |
| Prep Date: **1/12/2012** | Analysis Date: **1/13/2012** | SeqNo: **11387** Units: **%REC** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 1,2-Dichloroethane-d4 | 0.46 | | 0.5000 | | 93.0 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.46 | | 0.5000 | | 92.7 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.55 | | 0.5000 | | 109 | 71.7 | 132 | | | |
| Surr: Toluene-d8 | 0.45 | | 0.5000 | | 90.8 | 70 | 130 | | | |

| Sample ID **5ml rb** | SampType: **MBLK** | TestCode: **EPA Method 8260B: VOLATILES** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **R510** | RunNo: **510** |
| Prep Date: | Analysis Date: **1/20/2012** | SeqNo: **14467** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.050 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 0.050 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.050 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.050 | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 0.050 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.050 | | | | | | | | |
| Naphthalene | ND | 0.10 | | | | | | | | |
| 1-Methylnaphthalene | ND | 0.20 | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.20 | | | | | | | | |
| Acetone | ND | 0.75 | | | | | | | | |
| Bromobenzene | ND | 0.050 | | | | | | | | |
| Bromodichloromethane | ND | 0.050 | | | | | | | | |
| Bromoform | ND | 0.050 | | | | | | | | |
| Bromomethane | ND | 0.50 | | | | | | | | |
| 2-Butanone | ND | 0.50 | | | | | | | | |
| Carbon disulfide | ND | 0.50 | | | | | | | | |
| Carbon tetrachloride | ND | 0.10 | | | | | | | | |
| Chlorobenzene | ND | 0.050 | | | | | | | | |
| Chloroethane | ND | 0.10 | | | | | | | | |
| Chloroform | ND | 0.050 | | | | | | | | |

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1201344**

***25-Jan-12***

**Client:** Western Technologies

**Project:** Tract Z-1 PII

| Sample ID **5ml rb** | SampType: **MBLK** | TestCode: **EPA Method 8260B: VOLATILES** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **R510** | RunNo: **510** |
| Prep Date: | Analysis Date: **1/20/2012** | SeqNo: **14467** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloromethane | ND | 0.15 | | | | | | | | |
| 2-Chlorotoluene | ND | 0.050 | | | | | | | | |
| 4-Chlorotoluene | ND | 0.050 | | | | | | | | |
| cis-1,2-DCE | ND | 0.050 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.050 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 0.10 | | | | | | | | |
| Dibromochloromethane | ND | 0.050 | | | | | | | | |
| Dibromomethane | ND | 0.10 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.050 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.050 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.050 | | | | | | | | |
| Dichlorodifluoromethane | ND | 0.050 | | | | | | | | |
| 1,1-Dichloroethane | ND | 0.10 | | | | | | | | |
| 1,1-Dichloroethene | ND | 0.050 | | | | | | | | |
| 1,2-Dichloropropane | ND | 0.050 | | | | | | | | |
| 1,3-Dichloropropane | ND | 0.050 | | | | | | | | |
| 2,2-Dichloropropane | ND | 0.10 | | | | | | | | |
| 1,1-Dichloropropene | ND | 0.10 | | | | | | | | |
| Hexachlorobutadiene | ND | 0.10 | | | | | | | | |
| 2-Hexanone | ND | 0.50 | | | | | | | | |
| Isopropylbenzene | ND | 0.050 | | | | | | | | |
| 4-Isopropyltoluene | ND | 0.050 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 0.50 | | | | | | | | |
| Methylene chloride | ND | 0.15 | | | | | | | | |
| n-Butylbenzene | ND | 0.050 | | | | | | | | |
| n-Propylbenzene | ND | 0.050 | | | | | | | | |
| sec-Butylbenzene | ND | 0.050 | | | | | | | | |
| Styrene | ND | 0.050 | | | | | | | | |
| tert-Butylbenzene | ND | 0.050 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.050 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.050 | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 0.050 | | | | | | | | |
| trans-1,2-DCE | ND | 0.050 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.050 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.10 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.050 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.050 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.050 | | | | | | | | |
| Trichloroethene (TCE) | ND | 0.050 | | | | | | | | |
| Trichlorofluoromethane | ND | 0.050 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.10 | | | | | | | | |

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1201344**

***25-Jan-12***

**Client:** Western Technologies

**Project:** Tract Z-1 PII

| Sample ID **5ml rb** | SampType: **MBLK** | TestCode: **EPA Method 8260B: VOLATILES** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **R510** | RunNo: **510** |
| Prep Date: | Analysis Date: **1/20/2012** | SeqNo: **14467** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.48 | | 0.5000 | | 95.2 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.49 | | 0.5000 | | 98.4 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.51 | | 0.5000 | | 103 | 71.7 | 132 | | | |
| Surr: Toluene-d8 | 0.50 | | 0.5000 | | 100 | 70 | 130 | | | |

| Sample ID **100ng lcs** | SampType: **LCS** | TestCode: **EPA Method 8260B: VOLATILES** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **R510** | RunNo: **510** |
| Prep Date: | Analysis Date: **1/20/2012** | SeqNo: **14468** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 1.0 | 0.050 | 1.000 | 0 | 103 | 70.7 | 123 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 103 | 80 | 120 | | | |
| Chlorobenzene | 1.0 | 0.050 | 1.000 | 0 | 105 | 70 | 130 | | | |
| 1,1-Dichloroethene | 1.1 | 0.050 | 1.000 | 0 | 107 | 63.1 | 148 | | | |
| Trichloroethene (TCE) | 0.99 | 0.050 | 1.000 | 0 | 99.1 | 63.2 | 114 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.48 | | 0.5000 | | 95.4 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.5000 | | 100 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.49 | | 0.5000 | | 98.7 | 71.7 | 132 | | | |
| Surr: Toluene-d8 | 0.48 | | 0.5000 | | 96.5 | 70 | 130 | | | |

**Qualifiers:**

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1201344**

***25-Jan-12***

**Client:** Western Technologies

**Project:** Tract Z-1 PII

| Sample ID **MB-336** | SampType: **MBLK** | TestCode: **EPA Method 8310: PAHs** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **336** | RunNo: **521** |
| Prep Date: **1/18/2012** | Analysis Date: **1/23/2012** | SeqNo: **14912** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | ND | 0.25 | | | | | | | | |
| 1-Methylnaphthalene | ND | 0.25 | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.25 | | | | | | | | |
| Acenaphthylene | ND | 0.25 | | | | | | | | |
| Acenaphthene | ND | 0.25 | | | | | | | | |
| Fluorene | ND | 0.030 | | | | | | | | |
| Phenanthrene | ND | 0.015 | | | | | | | | |
| Anthracene | ND | 0.015 | | | | | | | | |
| Fluoranthene | ND | 0.020 | | | | | | | | |
| Pyrene | ND | 0.025 | | | | | | | | |
| Benz(a)anthracene | ND | 0.010 | | | | | | | | |
| Chrysene | ND | 0.011 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 0.010 | | | | | | | | |
| Benzo(k)fluoranthene | ND | 0.010 | | | | | | | | |
| Benzo(a)pyrene | ND | 0.010 | | | | | | | | |
| Dibenz(a,h)anthracene | ND | 0.010 | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 0.010 | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.010 | | | | | | | | |
| Surr: Benzo(e)pyrene | 0.35 | | 0.5000 | | 70.6 | 35.9 | 103 | | | |

| Sample ID **LCS-336** | SampType: **LCS** | TestCode: **EPA Method 8310: PAHs** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **336** | RunNo: **521** |
| Prep Date: **1/18/2012** | Analysis Date: **1/23/2012** | SeqNo: **15053** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 1.2 | 0.25 | 2.000 | 0 | 57.7 | 32.4 | 87 | | | |
| 1-Methylnaphthalene | 1.2 | 0.25 | 2.000 | 0 | 59.2 | 36.9 | 86.9 | | | |
| 2-Methylnaphthalene | 1.2 | 0.25 | 2.000 | 0 | 58.2 | 34.4 | 87.4 | | | |
| Acenaphthylene | 1.2 | 0.25 | 2.000 | 0 | 57.6 | 38.9 | 84.7 | | | |
| Acenaphthene | 1.2 | 0.25 | 2.000 | 0 | 58.8 | 41.7 | 83.4 | | | |
| Fluorene | 0.11 | 0.030 | 0.2000 | 0 | 52.9 | 27.8 | 72.5 | | | |
| Phenanthrene | 0.060 | 0.015 | 0.1006 | 0 | 59.1 | 31.9 | 79.1 | | | |
| Anthracene | 0.049 | 0.015 | 0.1006 | 0 | 48.5 | 38.8 | 81.2 | | | |
| Fluoranthene | 0.13 | 0.020 | 0.2006 | 0 | 64.3 | 40.9 | 86 | | | |
| Pyrene | 0.11 | 0.025 | 0.2000 | 0 | 53.2 | 21.4 | 90.4 | | | |
| Benz(a)anthracene | 0.013 | 0.010 | 0.02000 | 0 | 66.2 | 40.9 | 92.3 | | | |
| Chrysene | 0.060 | 0.011 | 0.1006 | 0 | 59.4 | 35.3 | 86.6 | | | |
| Benzo(b)fluoranthene | 0.019 | 0.010 | 0.02500 | 0 | 75.0 | 42.9 | 98.1 | | | |
| Benzo(k)fluoranthene | ND | 0.010 | 0.01250 | 0 | 70.0 | 50.6 | 99 | | | |
| Benzo(a)pyrene | ND | 0.010 | 0.01250 | 0 | 54.0 | 39.4 | 105 | | | |
| Dibenz(a,h)anthracene | 0.015 | 0.010 | 0.02500 | 0 | 61.0 | 40.5 | 100 | | | |

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1201344**

***25-Jan-12***

**Client:** Western Technologies

**Project:** Tract Z-1 PII

| Sample ID **LCS-336** | SampType: **LCS** | TestCode: **EPA Method 8310: PAHs** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **336** | RunNo: **521** |
| Prep Date: **1/18/2012** | Analysis Date: **1/23/2012** | SeqNo: **15053** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzo(g,h,i)perylene | 0.016 | 0.010 | 0.02500 | 0 | 64.0 | 39.4 | 90.3 | | | |
| Indeno(1,2,3-cd)pyrene | 0.029 | 0.010 | 0.05002 | 0 | 58.0 | 39.3 | 94.7 | | | |
| Surr: Benzo(e)pyrene | 0.34 | | 0.5000 | | 68.5 | 35.9 | 103 | | | |

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- RL Reporting Detection Limit

# Chain-of-Custody Record

Client: Western Technologies, Inc.

Mailing Address: 8305 Washington Pl NE
Albuquerque, NM 87113

Phone #: 505-823-4488

email or Fax#: 505-821-2963

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

Accreditation
☒ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Tract Z-1 PII

Project #: 3281JV227

Project Manager: David Wagner

Sampler: Pamela Thomas

On Ice: ☒ Yes ☐ No

Sample Temperature: -0


**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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


**Analysis Request**

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1201344 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions ($F,Cl,NO_3,NO_2,PO_4,SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | | | | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/9/12 | 1000 | Soil | SB1@5' | 1/4oz | | -1 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1015 | Soil | SB1@10' | 1/4oz | | -2 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1030 | Soil | SB1@15' | 1/4oz | | -3 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1045 | Soil | SB1@20' | 1/4oz | | -4 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1100 | Soil | SB1@25' | 1/4oz | | -5 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1130 | Soil | SB1@30' | 1/4oz | | -6 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1200 | Soil | SB2@5' | 1/4oz | | -7 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1215 | Soil | SB2@10' | 1/4oz | | -8 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1230 | Soil | SB2@15' | 1/4oz | | -9 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1245 | Soil | SB2@20' | 1/4oz | | -10 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1300 | Soil | SB2@25' | 1/4oz | | -11 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1315 | Soil | SB2@30' | 1/4 oz | | -12 | | | X | | | | | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| 1/12/12 | 1313 | Pamela Thomas | | 1/12/12 | 1317 |
| Date: | Time: | Relinquished by: | Received by: | Date | Time |

Remarks: INVOICE TO UNM PO 11044
SEE ATTACHMENT
add 8260 + 8310 to -5, -6, -34, -35 of 1/17/12

# Chain-of-Custody Record

Client: Western Technologies, Inc.

Mailing Address: 8305 Washington Pl NE
Albuquerque, NM 87113

Phone #: 505-823-4488

email or Fax#: 505-821-2963

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

Accreditation
☒ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: TRACT Z-1 PII

Project #: 32813V227

Project Manager: DAVID WAGNER WESTERN TECHNOLOGIES

Sampler: PAMELA THOMAS

On Ice: ☒ Yes ☐ No

Sample Temperature: .0


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


**Analysis Request**

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1201344 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F,Cl,$NO_3$,$NO_2$,$PO_4$,$SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/12 | 1330 | Soil | SB3 @ 5' | 1/4oz | | -13 | | | X | | | | | | | | | |
| 9/12 | 1345 | Soil | SB3 @ 10' | 1/4oz | | -14 | | | X | | | | | | | | | |
| 9/12 | 1400 | Soil | SB3 @ 15' | 1/4oz | | -15 | | | X | | | | | | | | | |
| 9/12 | 1415 | Soil | SB3 @ 20' | 1/4oz | | -16 | | | X | | | | | | | | | |
| 9/12 | 1430 | Soil | SB3 @ 25' | 1/4oz | | -17 | | | X | | | | | | | | | |
| 9/12 | 1445 | Soil | SB3 @ 30' | 1/4oz | | -18 | | | X | | | | | | | | | |
| 9/12 | 1500 | Soil | SB4 @ 5' | 1/4oz | | -19 | | | X | | | | | | | | | |
| 9/12 | 1515 | Soil | SB4 @ 10' | 1/4oz | | -20 | | | X | | | | | | | | | |
| 9/12 | 1530 | Soil | SB4 @ 15' | 1/4oz | | -21 | | | X | | | | | | | | | |
| 9/12 | 1545 | Soil | SB4 @ 20' | 1/4oz | | -22 | | | X | | | | | | | | | |
| 9/12 | 1600 | Soil | SB4 @ 25' | 1/4oz | | -23 | | | X | | | | | | | | | |
| 9/12 | 1615 | Soil | SB4 @ 30' | 1/4oz | | -24 | | | X | | | | | | | | | |

| Date | Time | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| 9/12/12 | 1313 | Pamela Thomas | | | |
| | | | | 9/12/12 | 1313 |
| Date | Time | Relinquished by: | Received by: | Date | Time |

Remarks: PLEASE EMAIL/MAIL RESULTS TO DAVID WAGNER
INVOICE TO UNM PO 11044

# Chain-of-Custody Record

Client: Western Technologies, Inc.

Mailing Address: 8305 Washington PL NE
Albuquerque, NM 87113

Phone #: 505-823-4488

email or Fax#: 505-821-2963

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

Accreditation
☑ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: Tract Z-1 PII

Project #: 3281JV227

Project Manager: David Wagner

Sampler: Pamela Thomas / David Wacker

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

**Analysis Request**

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 120134 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions (F,Cl,$NO_3$,$NO_2$,$PO_4$,$SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | | | | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/9/12 | 1630 | Soil | SB5@5' | 1/4oz | | -25 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1645 | Soil | SB5@10' | 1/4oz | | -26 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1700 | Soil | SB5@15' | 1/4oz | | -27 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1715 | Soil | SB5@20' | 1/4oz | | -28 | | | X | | | | | | | | | | | | | |
| 1/9/12 | 1730 | Soil | SB5@25' | 1/4oz | | -29 | | | X | | | | | | | | | | | | | |
| 1/10/12 | 1330 | Soil | SB5@60' | 1/4oz | | -30 | | | X | | | | | | | | | | | | | |
| 1/10/12 | 1520 | Soil | SB5@80' | 1/4oz | | -31 | | | X | | | | | | | | | | | | | |
| 1/10/12 | 1700 | Soil | SB5@100' | 1/4oz | | -32 | | | X | | | | | | | | | | | | | |
| 1/11/12 | 0920 | Soil | SB5@120' | 1/4oz | | -33 | | | X | | | | | | | | | | | | | |
| | | Soil | DUP | 1/4oz | | -34 | | | X | | | | | | | | | | | | | |

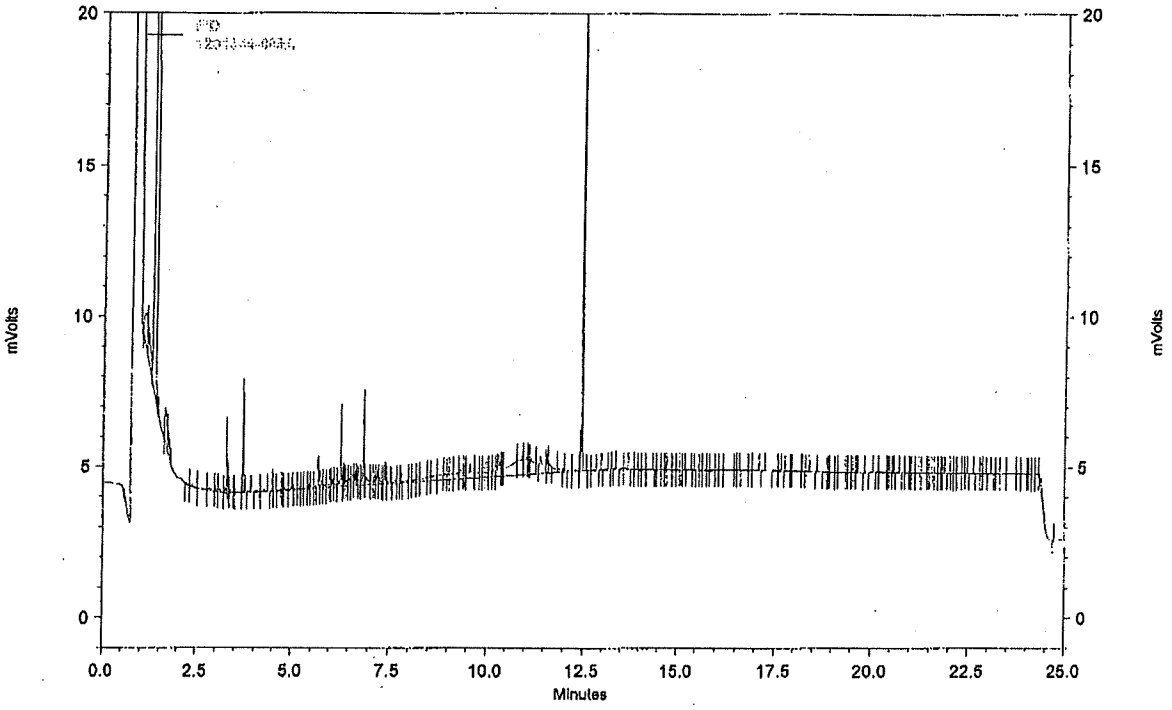
| Date | Time | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| 1/12/12 | 1313 | | | 01/12/12 | 1313 |
| Date: | Time: | Relinquished by: | Received by: | Date | Time |

Remarks:
Invoice to UNM PO11044

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

Instument: **FID-2 (Offline)** Vial #: **13** User: **System**
Sample ID: **1201344-005A** Data Descritpion: **{Data Description}**

Method: H:\EZsemi\8015dro\Data 2012\Methods\FID #2\DRO FID #2 121611.met
File: H:\EZsemi\8015dro\Data 2012\Data\FID #2\January 2012\011412F\1201344-005A 01-14-12 6-20-27 PM.dat
Aquired: 1/14/2012 6:29:34 PM




FID Results

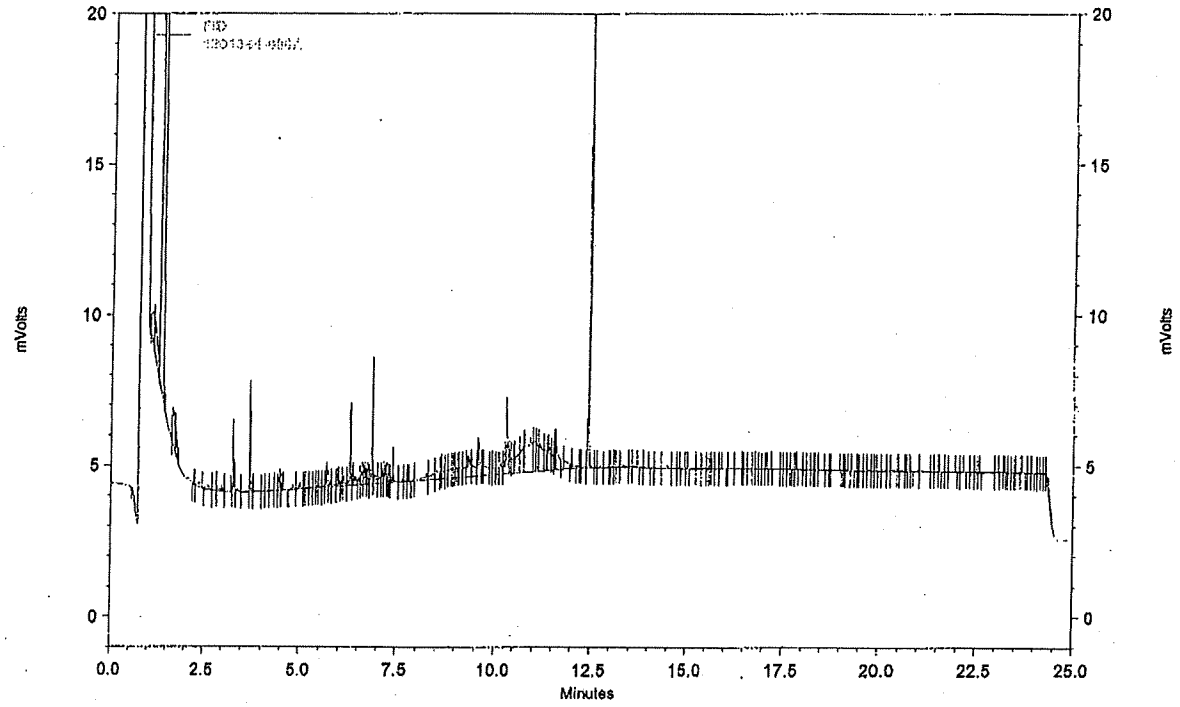
| Name | Retention Time | Area | ug/ml |
|---|---|---|---|
| DRO | | 79847 | 11.302 |
| MRO | | 42036 | 0.000 |
| DNOP | | 38340 | 10.240 |

Analyst _____

Reviewed By _____

Instument: **FID-2 (Offline)** Vial #: **14** User: **System**
Sample ID: **1201344-006A** Data Descritpion: **{Data Description}**

Method: H:\EZsemi\8015dro\Data 2012\Methods\FID #2\DRO FID #2 121611.met
File: H:\EZsemi\8015dro\Data 2012\Data\FID #2\January 2012\011412F\1201344-006A 01-14-12 6-54-36 PM.dat
Aquired: 1/14/2012 7:03:59 PM




FID Results

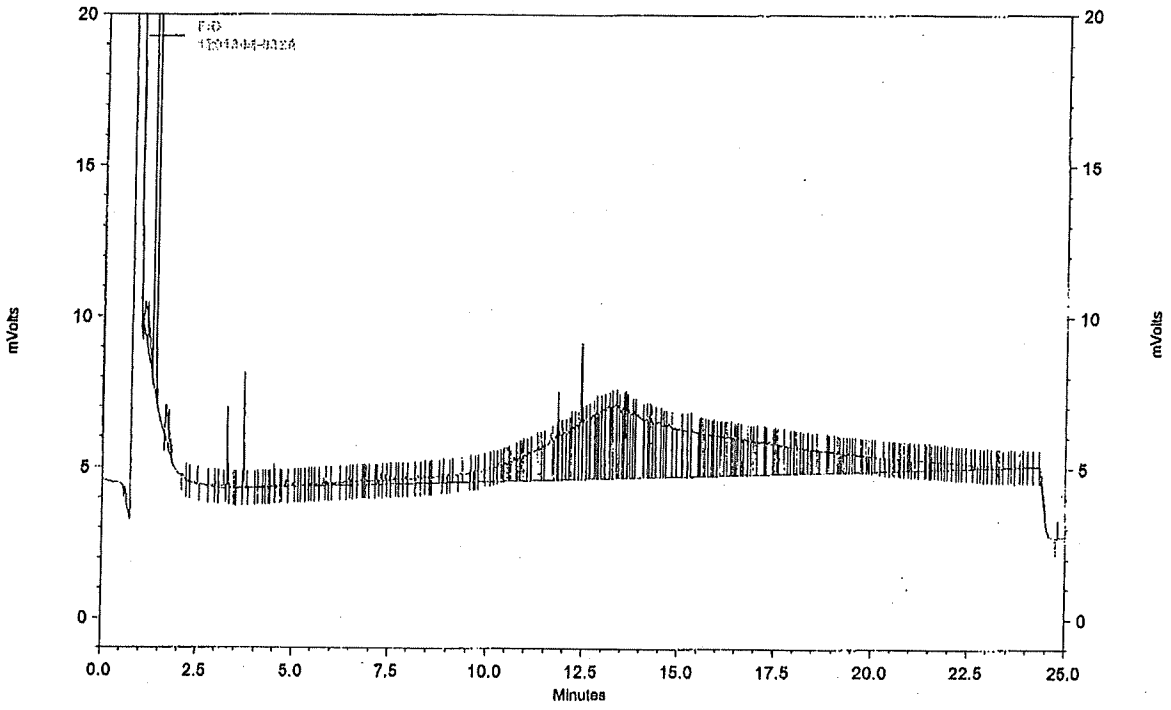
| Name | Retention Time | Area | ug/ml |
|---|---|---|---|
| DRO | | 124659 | 17.611 |
| MRO | | 43463 | 0.000 |
| DNOP | | 38595 | 10.306 |

Analyst _____

Reviewed By _____

Instument: **FID-2 (Offline)** Vial #: **45** User: **System**
Sample ID: **1201344-032A** Data Descritpion: **x10**

Method: H:\EZsemi\8015dro\Data 2012\Methods\FID #2\DRO FID #2 121611.met
File: H:\EZsemi\8015dro\Data 2012\Data\FID #2\January 2012\011412F\1201344-032A 01-15-12 2-34-09 PM.dat
Aquired: 1/15/2012 2:43:16 PM




FID Results

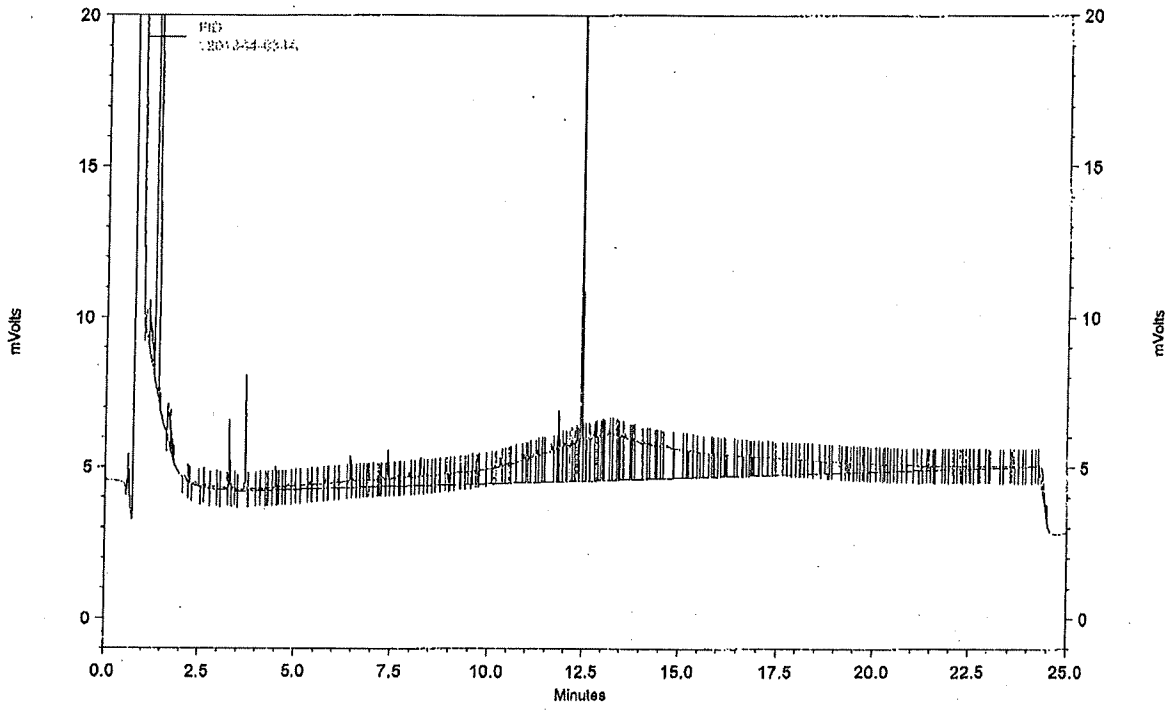
| Name | Retention Time | Area | ug/ml |
|---|---|---|---|
| DRO | | 140057 | 19.778 |
| MRO | | 543948 | 103.276 |
| DNOP | | 25244 | 6.924 |

Analyst _____

Reviewed By _____

Instument: **FID-2 (Offline)** Vial #: **41** User: **System**
Sample ID: **1201344-033A** Data Descritpion: **{Data Description}**

Method: H:\EZsemi\8015dro\Data 2012\Methods\FID #2\DRO FID #2 121611.met
File: H:\EZsemi\8015dro\Data 2012\Data\FID #2\January 2012\011412F\1201344-033A 01-15-12 12-25-06 PM.dat
Aquired: 1/15/2012 12:26:43 PM




FID Results

| Name | Retention Time | Area | ug/ml |
|---|---|---|---|
| DRO | | 187220 | 26.414 |
| MRO | | 401638 | 68.744 |
| DNOP | | 59934 | 15.978 |

Analyst _____

Reviewed By _____

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*



January 23, 2012

David Wagner
Western Technologies
8305 Washington Place NE
Albuquerque, NM 871131670
TEL: (505) 249-0224
FAX (505) 821-2963

RE: Tract Z-1 PII

OrderNo.: 1201469

Dear David Wagner:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/17/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201469-001 **Matrix:** OIL

**Client Sample ID:** Delo 400
**Collection Date:** 1/11/2012 11:20:00 AM
**Received Date:** 1/17/2012 3:30:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DRO BY 8015B** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | 30 | 0.97 | | wt% | 10 | 1/19/2012 7:06:36 PM |
| Motor Oil Range Organics (MRO) | 75 | 4.9 | | wt% | 10 | 1/19/2012 7:06:36 PM |
| Surr: DNOP | 0 | 80-120 | S | %REC | 10 | 1/19/2012 7:06:36 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201469-002 **Matrix:** OIL

**Client Sample ID:** Hammer Oil
**Collection Date:** 1/11/2012 11:30:00 AM
**Received Date:** 1/17/2012 3:30:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DRO BY 8015B** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | 2.9 | 0.97 | | wt% | 10 | 1/19/2012 7:40:27 PM |
| Motor Oil Range Organics (MRO) | 53 | 4.8 | | wt% | 10 | 1/19/2012 7:40:27 PM |
| Surr: DNOP | 0 | 80-120 | S | %REC | 10 | 1/19/2012 7:40:27 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** Tract Z-1 PII
**Lab ID:** 1201469-003 **Matrix:** OIL

**Client Sample ID:** Pipe Dope
**Collection Date:** 1/11/2012 11:40:00 AM
**Received Date:** 1/17/2012 3:30:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **DRO BY 8015B** | | | | | | Analyst: **JMP** |
| Diesel Range Organics (DRO) | 16 | 4.7 | | wt% | 50 | 1/19/2012 8:14:20 PM |
| Motor Oil Range Organics (MRO) | 62 | 23 | | wt% | 50 | 1/19/2012 8:14:20 PM |
| Surr: DNOP | 0 | 80-120 | S | %REC | 50 | 1/19/2012 8:14:20 PM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1201469**

***23-Jan-12***

**Client:** Western Technologies

**Project:** Tract Z-1 PII

| Sample ID **MB-353** | SampType: **MBLK** | TestCode: **DRO by 8015B** |
|---|---|---|
| Client ID: **PBW** | Batch ID: **353** | RunNo: **471** |
| Prep Date: **1/19/2012** | Analysis Date: **1/19/2012** | SeqNo: **13508** Units: **wt%** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 0.10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 0.50 | | | | | | | | |
| Surr: DNOP | 0.11 | | 0.1000 | | 105 | 80 | 120 | | | |

| Sample ID **LCS-353** | SampType: **LCS** | TestCode: **DRO by 8015B** |
|---|---|---|
| Client ID: **LCSW** | Batch ID: **353** | RunNo: **471** |
| Prep Date: **1/19/2012** | Analysis Date: **1/19/2012** | SeqNo: **13509** Units: **wt%** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 0.42 | 0.10 | 0.5000 | 0 | 83.3 | 80 | 120 | | | |
| Surr: DNOP | 0.059 | | 0.05000 | | 118 | 80 | 120 | | | |

| Sample ID **LCSD-353** | SampType: **LCSD** | TestCode: **DRO by 8015B** |
|---|---|---|
| Client ID: **LCSS02** | Batch ID: **353** | RunNo: **471** |
| Prep Date: **1/19/2012** | Analysis Date: **1/19/2012** | SeqNo: **13510** Units: **wt%** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 0.46 | 0.10 | 0.5000 | 0 | 91.5 | 80 | 120 | 9.38 | 20 | |
| Surr: DNOP | 0.060 | | 0.05000 | | 119 | 80 | 120 | 0 | 0 | |

**Qualifiers:**

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: WTI  Work Order Number: 1201469

Logged by: Lindsay Mangin  1/17/2012 3:30:00 PM

Completed By: Lindsay Mangin  1/17/2012 4:13:30 PM

Reviewed By: MG 1/18/12

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Were seals intact? | Yes | No | Not Present ✔ |
| 2. Is Chain of Custody complete? | Yes ✔ | No | Not Present |
| 3. How was the sample delivered? | Client | | |

## Log In

| | | | |
|---|---|---|---|
| 4. Coolers are present? (see 19. for cooler specific information) | Yes ✔ | No | NA |
| 5. Was an attempt made to cool the samples? | Yes | No ✔ | NA |
| 6. Were all samples received at a temperature of >0° C to 6.0°C | Approved by client<br>Yes | No ✔ | NA |
| 7. Sample(s) in proper container(s)? | Approved by client.<br>Yes ✔ | No | |
| 8. Sufficient sample volume for indicated test(s)? | Yes ✔ | No | |
| 9. Are samples (except VOA and ONG) properly preserved? | Yes ✔ | No | |
| 10. Was preservative added to bottles? | Yes | No ✔ | NA |
| 11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? | Yes | No | No VOA Vials ✔ |
| 12. Were any sample containers received broken? | Yes | No ✔ | |
| 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ✔ | No | # of preserved bottles checked for pH: |
| 14. Are matrices correctly identified on Chain of Custody? | Yes ✔ | No | (<2 or >12 unless noted) |
| 15. Is it clear what analyses were requested? | Yes ✔ | No | Adjusted? |
| 16. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ✔ | No | Checked by: |

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA ✔

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

18. Additional remarks:

19. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 17.6 | Good | Not Present | | | |

# Chain-of-Custody Record

Client: WESTERN TECHNOLOGIES INC.

8305 WASHINGTON PL. NE

Mailing Address:

ALBUQUERQUE, N.M 87113-1670

Phone #: 505-823-4488

email or Fax#: 505-821-2963

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush _____

Project Name:

TRACT Z-1 PH II

Project #:

3281JV227

Project Manager:

DAVID WIENER

Sampler: DAVID WIENER

On Ice: ~~☒ Yes~~ ☒ No

Sample Temperature: 17.6°

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

**Analysis Request**

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1201469 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions ($F,Cl,NO_3,NO_2,PO_4,SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | | | | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/11/12 ~~1220~~ 1120 | | oil | DELO 400 | 1 | 407 | -1 | | | X | | | | | | | | | | | | | |
| 1/11/12 ~~1220~~ 1130 | | oil | HAMMER OIL | 1 | 402 | -2 | | | X | | | | | | | | | | | | | |
| 1/11/12 ~~1220~~ 1140 | | oil | PIPE DOPE | 1 | 407 | -3 | | | X | | | | | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| 1/17/12 | 1530 | | | 1/17/12 | 1530 |
| Date: | Time: | Relinquished by: | Received by: | Date | Time |

Remarks:

INVOICE TO UNM

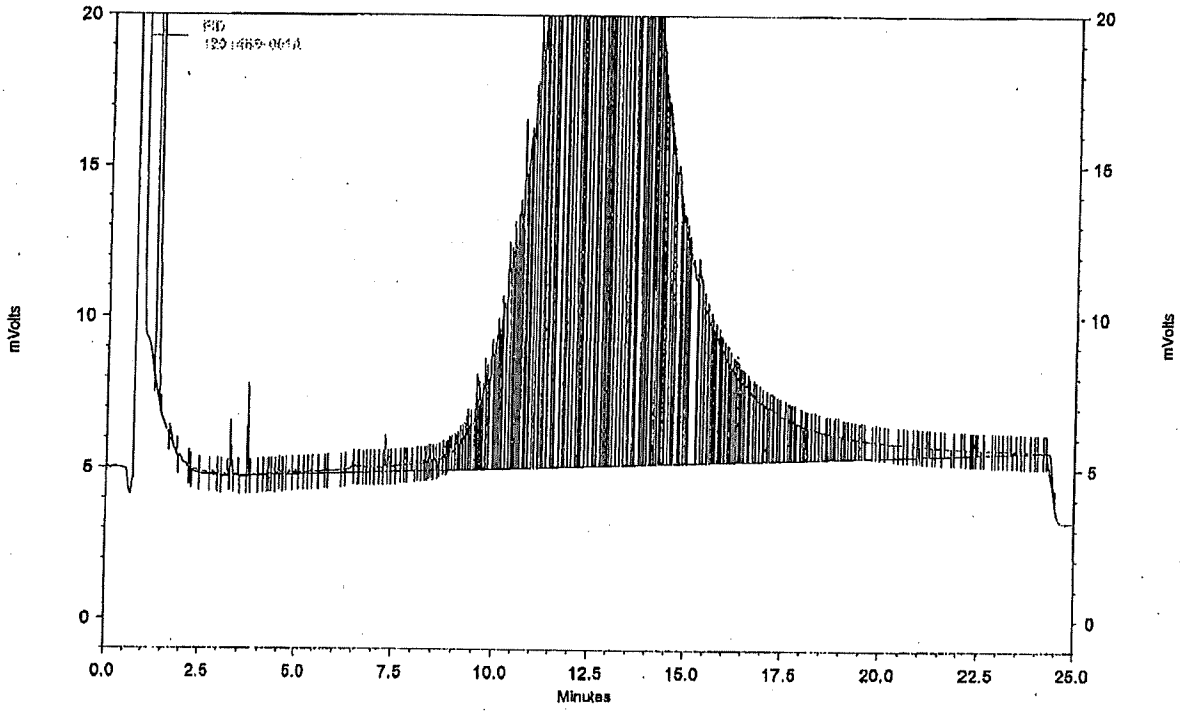
PO 11044

INCLUDE CHROMATOGRAMS

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

Instument: **FID-2 (Offline)** Vial #: **9** User: **System**
Sample ID: **1201469-001A** Data Descritpion: **Product x10**

Method: H:\EZsemi\8015dro\Data 2012\Methods\FID #2\DRO FID #2 011712.met
File: H:\EZsemi\8015dro\Data 2012\Data\FID #2\1201469-001A 01-19-12 6-57-30 PM.dat
Aquired: 1/19/2012 7:06:36 PM




FID Results

| Name | Retention Time | Area | ug/ml |
|---|---|---|---|
| DRO | | 1527037 | 307.530 |
| MRO | | 3634904 | 764.573 |
| DNOP | | 385082 | 115.407 |

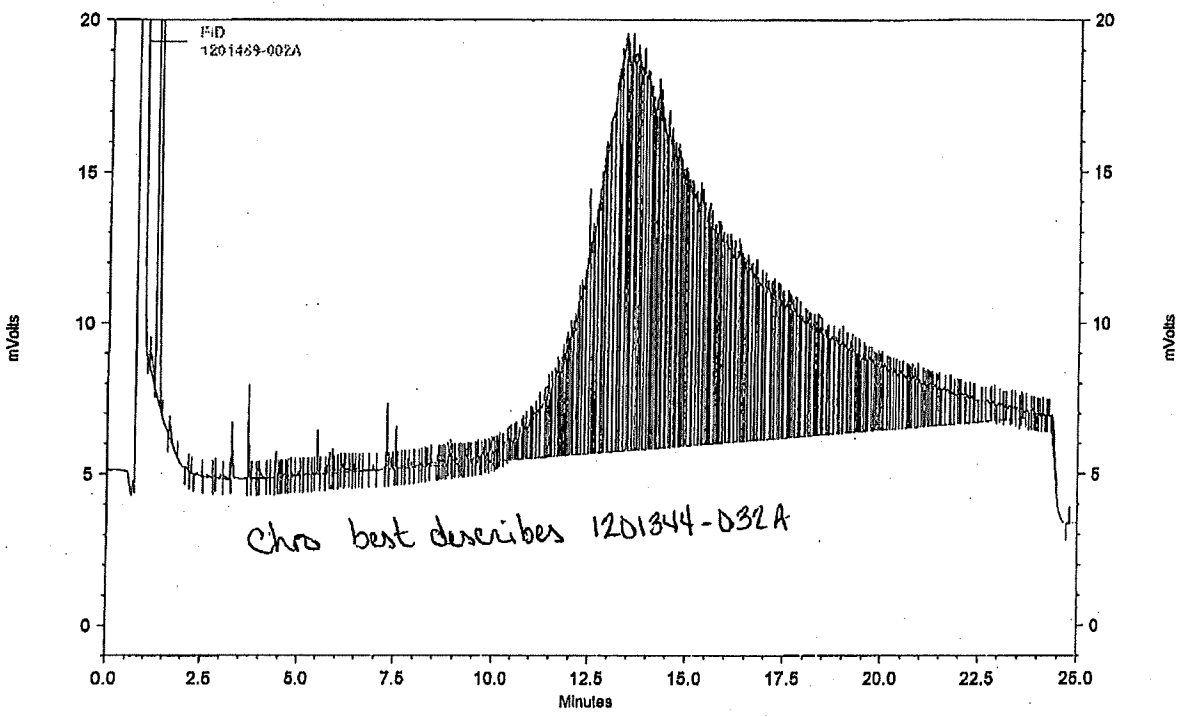
Analyst _____

Reviewed By _____

DNOP not recovered due to dilution

Instument: **FID-2 (Offline)** Vial #: **10** User: **System**
Sample ID: **1201469-002A** Data Descritpion: **Product x10**

Method: H:\EZsemi\8015dro\Data 2012\Methods\FID #2\DRO FID #2 011712.met
File: H:\EZsemi\8015dro\Data 2012\Data\FID #2\011912F\1201469-002A 01-19-12 7-31-38 PM.dat
Aquired: 1/19/2012 7:40:27 PM




FID Results

| Name | Retention Time | Area | ug/ml |
|---|---|---|---|
| DRO | | 184947 | 29.994 |
| MRO | | 2617830 | 545.686 |
| DNOP | | 64139 | 23.710 |

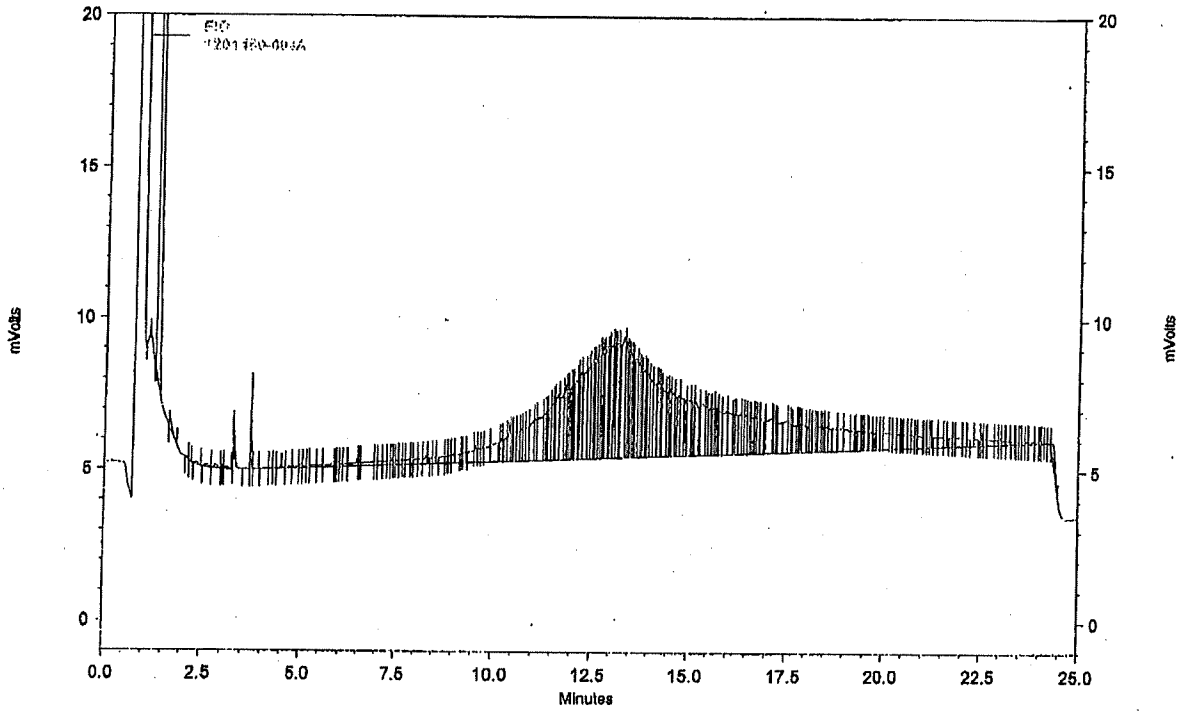
Analyst _____

Reviewed By _____

DNOP not recovered due to dilution

Instument: **FID-2 (Offline)** Vial #: **11** User: **System**
Sample ID: **1201469-003A** Data Descritpion: **Product x50**

Method: H:\EZsemi\8015dro\Data 2012\Methods\FID #2\DRO FID #2 011712.met
File: H:\EZsemi\8015dro\Data 2012\Data\FID #2\1201469-003A 01-19-12 8-05-30 PM.dat
Aquired: 1/19/2012 8:14:20 PM




FID Results

| Name | Retention Time | Area | ug/ml |
|---|---|---|---|
| DRO | | 204184 | 33.947 |
| MRO | | 695766 | 132.033 |
| DNOP | | 28695 | 12.110 |

Analyst _____

Reviewed By _____

DNOP not recovered due to dilution

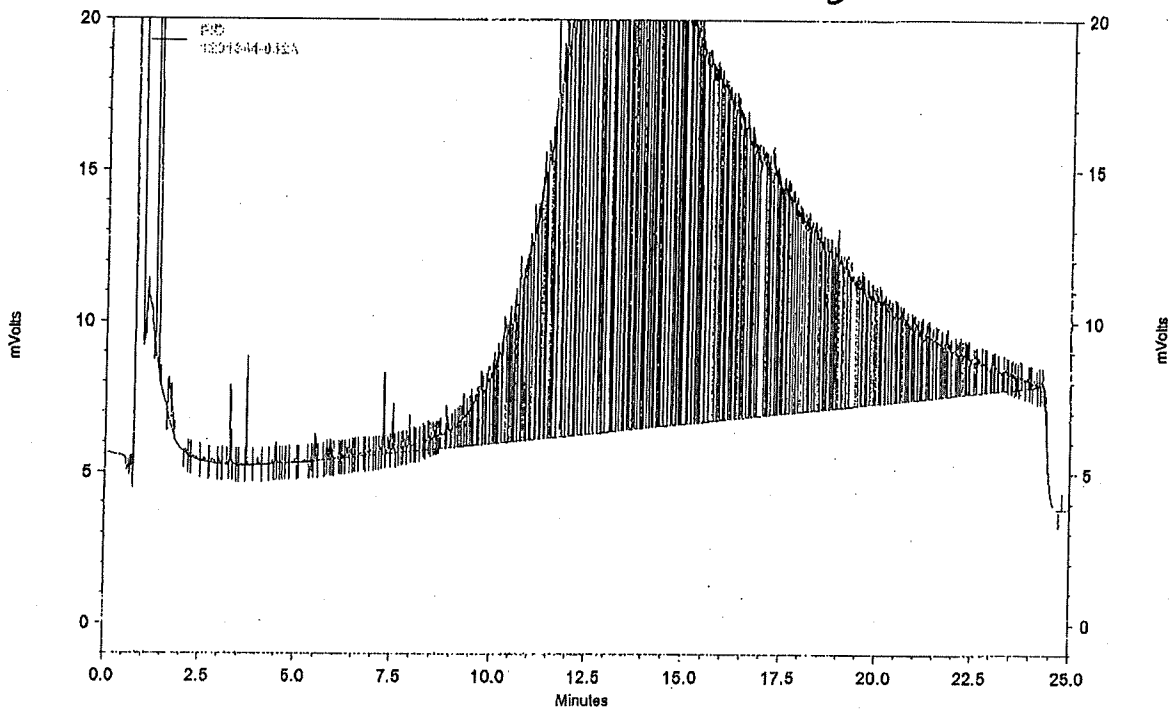
MLD

$$\frac{(132.033)(10)(50)}{1,050,000} \times 100\% = 62.05\%$$

Instument: **FID-2 (Offline)** Vial #: **36** User: **System**
Sample ID: **1201344-032A** Data Descritpion: **{Data Description}**

Method: H:\EZsemi\8015dro\Data 2012\Methods\FID #2\DRO FID #2 121611.met
File: H:\EZsemi\8015dro\Data 2012\Data\FID #2\January 2012\011412F\1201344-032A 01-15-12 8-55-28 AM.dat
Aquired: 1/15/2012 9:03:50 AM

SBS @ 100




FID Results

| Name | Retention Time | Area | ug/ml |
|---|---|---|---|
| DRO | | 896424 | 125.924 |
| MRO | | 4348585 | 1026.484 |
| DNOP | | 234340 | 60.218 |

Analyst _____

Reviewed By _____

Copy

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*



January 26, 2012

David Wagner
Western Technologies
8305 Washington Place NE
Albuquerque, NM 871131670
TEL: (505) 249-0224
FAX (505) 821-2963

RE: TRACT Z-1 Phase II

OrderNo.: 1201651

Dear David Wagner:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/23/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order **1201651**
Date Reported: **1/26/2012**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Project:** TRACT Z-1 Phase II
**Lab ID:** 1201651-001
**Matrix:** AQUEOUS
**Client Sample ID:** MW-12
**Collection Date:** 1/23/2012 11:20:00 AM
**Received Date:** 1/23/2012 2:00:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **MMS** |
| Benzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Toluene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Ethylbenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Naphthalene | ND | 2.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1-Methylnaphthalene | ND | 4.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 2-Methylnaphthalene | ND | 4.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Acetone | ND | 10 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Bromobenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Bromodichloromethane | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Bromoform | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Bromomethane | ND | 3.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 2-Butanone | ND | 10 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Carbon disulfide | ND | 10 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Carbon Tetrachloride | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Chlorobenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Chloroethane | ND | 2.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Chloroform | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Chloromethane | ND | 3.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 2-Chlorotoluene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 4-Chlorotoluene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| cis-1,2-DCE | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| cis-1,3-Dichloropropene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Dibromochloromethane | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Dibromomethane | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,2-Dichlorobenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,3-Dichlorobenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,4-Dichlorobenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Dichlorodifluoromethane | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,1-Dichloroethane | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,1-Dichloroethene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,2-Dichloropropane | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,3-Dichloropropane | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 2,2-Dichloropropane | ND | 2.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,1-Dichloropropene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Hexachlorobutadiene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 2-Hexanone | ND | 10 | | µg/L | 1 | 1/26/2012 6:55:07 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Western Technologies
**Client Sample ID:** MW-12
**Project:** TRACT Z-1 Phase II
**Collection Date:** 1/23/2012 11:20:00 AM
**Lab ID:** 1201651-001
**Matrix:** AQUEOUS
**Received Date:** 1/23/2012 2:00:00 PM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8260B: VOLATILES** | | | | | | Analyst: **MMS** |
| Isopropylbenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 4-Isopropyltoluene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 4-Methyl-2-pentanone | ND | 10 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Methylene Chloride | ND | 3.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| n-Butylbenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| n-Propylbenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| sec-Butylbenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Styrene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| tert-Butylbenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Tetrachloroethene (PCE) | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| trans-1,2-DCE | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| trans-1,3-Dichloropropene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,1,1-Trichloroethane | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,1,2-Trichloroethane | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Trichloroethene (TCE) | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Trichlorofluoromethane | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| 1,2,3-Trichloropropane | ND | 2.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Vinyl chloride | ND | 1.0 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Xylenes, Total | ND | 1.5 | | µg/L | 1 | 1/26/2012 6:55:07 AM |
| Surr: 1,2-Dichloroethane-d4 | 99.8 | 70-130 | | %REC | 1 | 1/26/2012 6:55:07 AM |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | | %REC | 1 | 1/26/2012 6:55:07 AM |
| Surr: Dibromofluoromethane | 103 | 69.8-130 | | %REC | 1 | 1/26/2012 6:55:07 AM |
| Surr: Toluene-d8 | 95.2 | 70-130 | | %REC | 1 | 1/26/2012 6:55:07 AM |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |
| S | Spike Recovery outside accepted recovery limits | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1201651**

*26-Jan-12*

**Client:** Western Technologies

**Project:** TRACT Z-1 Phase II

| Sample ID: **5ml rb** | SampType: **MBLK** | TestCode: **EPA Method 8260B: VOLATILES** |
|---|---|---|
| Client ID: **PBW** | Batch ID: **R582** | RunNo: **582** |
| Prep Date: | Analysis Date: **1/25/2012** | SeqNo: **16713** Units: **µg/L** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 1.0 | | | | | | | | |
| Toluene | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | | | | | | | |
| Naphthalene | ND | 2.0 | | | | | | | | |
| 1-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| Acetone | ND | 10 | | | | | | | | |
| Bromobenzene | ND | 1.0 | | | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | | | |
| Bromoform | ND | 1.0 | | | | | | | | |
| Bromomethane | ND | 3.0 | | | | | | | | |
| 2-Butanone | ND | 10 | | | | | | | | |
| Carbon disulfide | ND | 10 | | | | | | | | |
| Carbon Tetrachloride | ND | 1.0 | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | |
| Chloroethane | ND | 2.0 | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | |
| Chloromethane | ND | 3.0 | | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | | | | | | | | |
| cis-1,2-DCE | ND | 1.0 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | | | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | | | |
| Dibromomethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| Dichlorodifluoromethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | | | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | | | | | | | | |
| 1,1-Dichloropropene | ND | 1.0 | | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | | | | | | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| */X | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| J | Analyte detected below quantitation limits | ND | Not Detected at the Reporting Limit |
| R | RPD outside accepted recovery limits | RL | Reporting Detection Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **1201651**

*26-Jan-12*

**Client:** Western Technologies

**Project:** TRACT Z-1 Phase II

| Sample ID: **5ml rb** | SampType: **MBLK** | TestCode: **EPA Method 8260B: VOLATILES** |
|---|---|---|
| Client ID: **PBW** | Batch ID: **R582** | RunNo: **582** |
| Prep Date: | Analysis Date: **1/25/2012** | SeqNo: **16713** Units: **µg/L** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| 2-Hexanone | ND | 10 | | | | | | | | |
| Isopropylbenzene | ND | 1.0 | | | | | | | | |
| 4-Isopropyltoluene | ND | 1.0 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 10 | | | | | | | | |
| Methylene Chloride | ND | 3.0 | | | | | | | | |
| n-Butylbenzene | ND | 1.0 | | | | | | | | |
| n-Propylbenzene | ND | 1.0 | | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | | | | | | | | |
| Styrene | ND | 1.0 | | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 1.0 | | | | | | | | |
| trans-1,2-DCE | ND | 1.0 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | | | |
| Trichloroethene (TCE) | ND | 1.0 | | | | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | | | | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | | | | |
| Xylenes, Total | ND | 1.5 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 11 | | 10.00 | | 106 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 11 | | 10.00 | | 113 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 10 | | 10.00 | | 103 | 69.8 | 130 | | | |
| Surr: Toluene-d8 | 10 | | 10.00 | | 99.7 | 70 | 130 | | | |

| Sample ID: **100ng lcs** | SampType: **LCS** | TestCode: **EPA Method 8260B: VOLATILES** |
|---|---|---|
| Client ID: **LCSW** | Batch ID: **R582** | RunNo: **582** |
| Prep Date: | Analysis Date: **1/25/2012** | SeqNo: **16733** Units: **µg/L** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 21 | 1.0 | 20.00 | 0 | 105 | 81.1 | 130 | | | |
| Toluene | 21 | 1.0 | 20.00 | 0 | 104 | 82.3 | 122 | | | |
| Chlorobenzene | 21 | 1.0 | 20.00 | 0 | 105 | 70 | 130 | | | |
| 1,1-Dichloroethene | 22 | 1.0 | 20.00 | 0 | 108 | 83.1 | 126 | | | |
| Trichloroethene (TCE) | 20 | 1.0 | 20.00 | 0 | 97.8 | 67.4 | 137 | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.6 | | 10.00 | | 96.2 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 11 | | 10.00 | | 108 | 70 | 130 | | | |

**Qualifiers:**

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

# QC SUMMARY REPORT

WO#: **1201651**

## Hall Environmental Analysis Laboratory, Inc.

*26-Jan-12*

**Client:** Western Technologies
**Project:** TRACT Z-1 Phase II

| Sample ID: **100ng lcs** | SampType: **LCS** | TestCode: **EPA Method 8260B: VOLATILES** |
|---|---|---|
| Client ID: **LCSW** | Batch ID: **R582** | RunNo: **582** |
| Prep Date: | Analysis Date: **1/25/2012** | SeqNo: **16733** Units: **µg/L** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: Dibromofluoromethane | 9.4 | | 10.00 | | 94.2 | 69.8 | 130 | | | |
| Surr: Toluene-d8 | 10 | | 10.00 | | 102 | 70 | 130 | | | |

**Qualifiers:**

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: WTI Work Order Number: 1201651

Logged by: **Lindsay Mangin** 1/23/2012 2:00:00 PM

Completed By: **Lindsay Mangin** 1/23/2012 2:17:31 PM

Reviewed By: 1/23/12

## Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Client

## Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☑ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

## Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

18. Additional remarks:

19. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 7.6 | Good | Not Present | | | |

# Chain-of-Custody Record

Client: WESTERN TECHNOLOGIES INC

8305 WASHINGTON PL NE

Mailing Address:

ALB., NM 87113-1670

Phone #: 505-823-4488

email or Fax#: 505-821-2963

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush _____

Project Name:

TRACT Z-1 PHASE II

Project #:

3281JV227

Project Manager:

DAVID WAGNER

Sampler: VERN HERSHBERGER

On Ice: ☑ Yes ☐ No

Sample Temperature: 7.6


**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

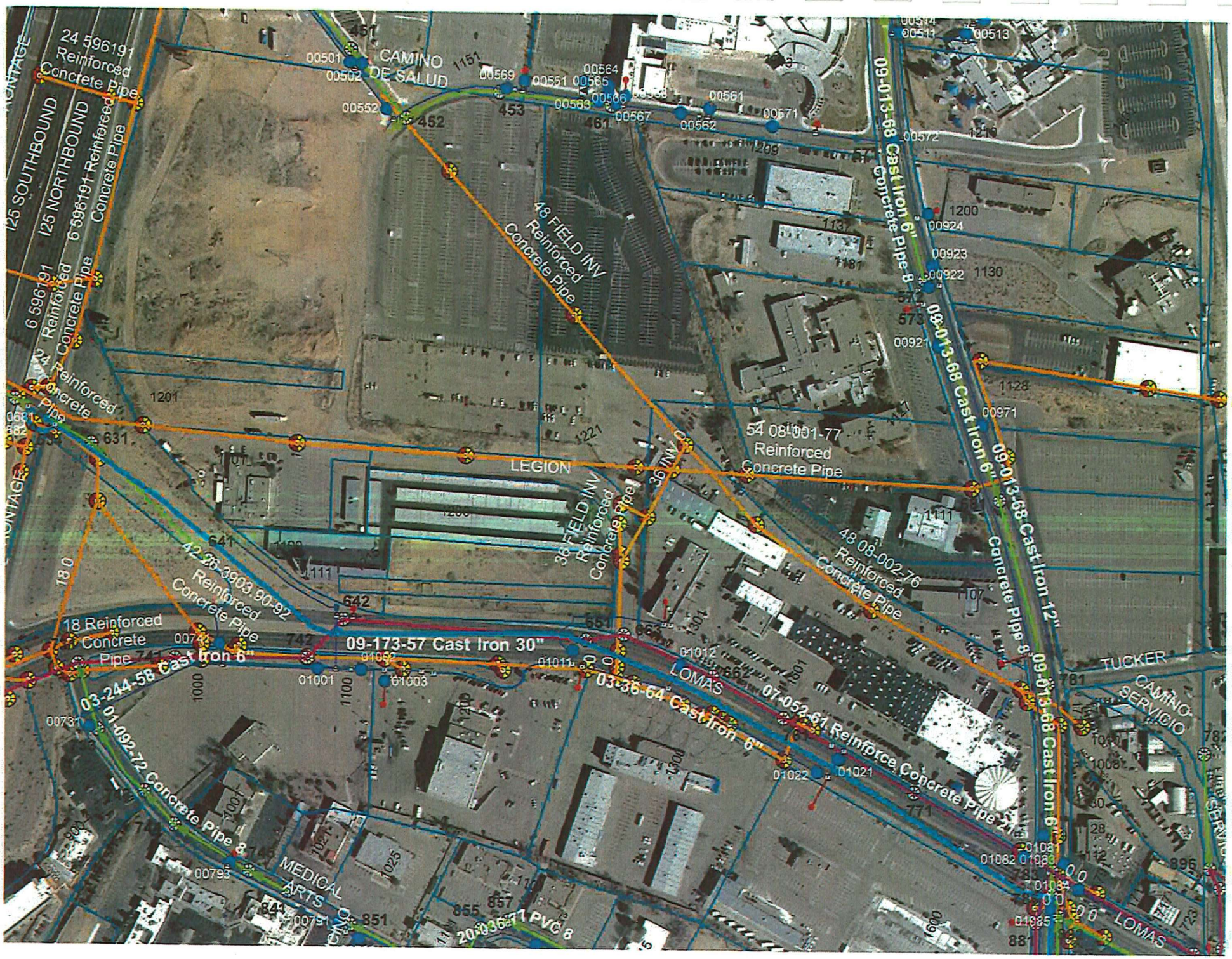

**Analysis Request**

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. 1201651 | BTEX + MTBE + TMB's (8021) | BTEX + MTBE + TPH (Gas only) | TPH Method 8015B (Gas/Diesel) | TPH (Method 418.1) | EDB (Method 504.1) | 8310 (PNA or PAH) | RCRA 8 Metals | Anions ($F,Cl,NO_3,NO_2,PO_4,SO_4$) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | | | | | Air Bubbles (Y or N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1/23/12 | 1120 | AQ | MW-12 | 2/40mL | HCl | -1 | | | | | | | | | | X | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Date | Time |
|---|---|---|---|---|---|
| 1/23/12 | 1400 | David Wagner | | 1/23/12 | 1400 |
| Date: | Time: | Relinquished by: | Received by: | Date | Time |

Remarks: INVOICE TO UNM PO 11044

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


24 596191 Reinforced Concrete Pipe
I25 SOUTHBOUND
I25 NORTHBOUND
6 596191 Reinforced Concrete Pipe
CAMINO DE SALUD
48 FIELD INV Reinforced Concrete Pipe
09-013-68 Cast Iron 6" Concrete Pipe 8
09-013-68 Cast Iron 12"
09-013-68 Cast Iron 6"
54 08-001-77 Reinforced Concrete Pipe
LEGION
36 FIELD INV Reinforced Concrete Pipe
48 08-002-76 Reinforced Concrete Pipe
42 20-3903.90-92 Reinforced Concrete Pipe
18 Reinforced Concrete Pipe
09-173-57 Cast Iron 30"
03-244-58 Cast Iron 6"
03-36-64 Cast Iron 6"
07-052-61 Reinforce Concrete Pipe 21
01-092-72 Concrete Pipe 8
LOMAS
TUCKER
CAMINO SERVICIO
MEDICAL ARTS
20 03-677 PVC 8

ONPOINT
UTILITY LOCATING SERVICES

# FIELD REPORT

Tract Z-1 1221 Legion Rd NE

UTILITY CLEARANCE SURVEY

PREPARED FOR: WESTERN TECHNOLOGIES, INC.

START DATE: 1/5/2012

COMPLETION DATE: 1/5/2012

TOTAL BORING LOCATIONS: 5

On January 5, 2012 ON POINT INC conducted a utility clearance survey for 5 proposed geotechnical boreholes at 1221 Legion Rd NE, Albuquerque, NM 87102. Proposed borehole locations were determined by Western Tech personnel and situated around existing parking lot (Tract Z-1). Utility Clearance Survey included verifying existing underground utilities within a 50' radius of proposed boreholes. **BOREHOLE SURVEY RESULTS**:

SB-A:

1. Preformed a passive sweep for energized utilities
2. Verified COA Storm Drain in the immediate area
3. There are no other suspected utility conflicts in the immediate area

SB-B:

1. Preformed a passive sweep for energized utilities
2. Electric/Telecommunication lines identified to Code Blue Emergency Phones by other parties
3. There are no other suspected utility conflicts in the immediate area

SB-C:

1. Preformed a passive sweep for energized utilities
2. There are no other suspected utility conflicts in the immediate area

SB-D:

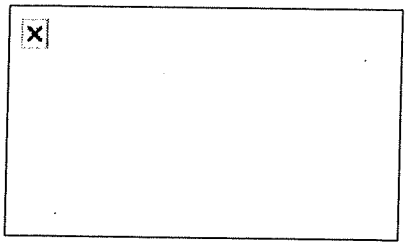
1. Preformed a passive sweep for energized utilities
2. There are no other suspected utility conflicts in the immediate area

MW-12:

1. Preformed a passive sweep for energized utilities
2. Located buried manhole as directed by Western Tech, Inc.
3. City of Albuquerque Storm Drain location was verified based on manhole locations and site utility plan provided by COA.
4. Verified and located electrical/telecommunication line north of COA storm drain. Suspected to be for cell tower.

ON POINT INC • 2420 Comanche Rd NE, Suite C3 • ALBUQUERQUE, NM 87107 • OFFICE: 890-4174 • FAX: 922-6022
Email: joe@opiutilitylocating.com • www.opiutilitylocating.com

New Mexico Onecall - Submit a ticket



Your WEB confirmation number is : **W1112291019060**

Your ticket was sent successfully to New Mexico One Call..

Please note:

**This Web Confirmation number is not a NMOC ticket number.** This number is used for tracking the process of your locate request. Your NMOC ticket number and start date/time will be sent to you after processing is complete at the call center. If you do not receive your confirmation within three hours during normal working hours (not including weekends and holidays) please call 1-800-321-2537.

Print

New request

Go back to home page

Date: 12/29/2011 Time: 10:09 AM To: , 2011531516 @ 915058212963 N
MOC Page: 001

New Mexico One Call
Locate Request Confirmation

Header Code: STANDARD LOCATE
Request Type:

Ticket No: 2011531516 Seq. No: 0
Update of:
Original Call Date: 12/29/2011 Time: 10:02:04 AM OP: 215
Transmit Date: 12/29/2011 Time: 10:07:09 AM
Work to Begin Date: 01/05/2012 Time: 10:00:00 AM

Company: WESTERN TECHNOLOGIES, INC
Contact Name: DAVE WAGNER Contact Phone: (505)823-4488
Alternate Contact: Alternate Phone:
Best Time to Call: Fax No: (505)821-2963
Cell Phone: (505)249-0224 Pager No:
Email: d.wagner@wt-us.com

State: NM County: BERNALILLO City: ALBUQUERQUE
Address: 1221 , LEGION RD NE
To Address:
Nearest Intersecting Street: LOMAS BLVD NE
2nd Intersecting Street:
Subdivision:
Latitude: 35.09041744 Longitude: -106.61862005
Zip Code:
Grid:
Township: 10N Range: 03E Section 1/4: 16 SE

Location of Work: W1112290850020 - FENCE BETWEEN NORTH & SOUTH. NORTH PORTION ACCESSED FROM CAMINO DE SALUD BY UNM CANCER CENTER. LEGION ROAD NORTH SHOULDER: ACCESS FROM LEGION ROAD FROM LOMAS. SOUTH PORTION ACCESSED FROM GALLES CHEVROLET: CALL ANDY VOGT :
Remarks: SEWER & STORM DRAINS ARE A PRIORITY: CALL DAVID 249-0224. SPOT FROM LOMAS 400FT ALONG LEGION RD NORTH SHOULDER
Type of Work: BORE/AUGER-MONITOR WELLS
Private Property: Y Street: Y Overhead Lines: Blasting:
Easement: Y Mechanical Boring: Premarked:
Work Being Done For:
The following utility owners have been notified:

| | | | | |
|---|---|---|---|---|
| QLNN | MCI1 | GST | COA | JONE |
| UNM | ABQWA | PNMAB | NMGAQ | |

IMPORTANT CONFIRMATION NOTICE

Your fax request has been received and processed. It is your responsibility to review the information provided on this faxback confirmation ticket and ensure it has been correctly interpreted from your request. Notify us immediately of any corrections or errors. Acceptance of this faxback confirmation ticket means you accept responsibility for the accuracy of the information contained in the ticket and you agree to indemnify New Mexico One Call Systems, Inc. of all liability, claims, fees, or damages, including reasonable attorney fees arising from or resulting from the use of the information provided on this confirmation ticket.

New Mexico Law requires you to wait two working days from the date and time of this confirmation notice before you begin excavation. This request is valid for ten working days. Only the facility owners listed on this ticket will be notified.
You can check the Locate Status of this ticket and request other tickets by visiting the our website at www.nmonecall.org.

Date: 12/29/2011 Time: 10:41 AM To: , 2011531566 @ 915058212963 N
MOC Page: 001

New Mexico One Call
Locate Request Confirmation

Header Code: STANDARD LOCATE
Request Type:

Ticket No: 2011531566 Seq. No: 0
Update of:
Original Call Date: 12/29/2011 Time: 10:26:43 AM OP: 215
Transmit Date: 12/29/2011 Time: 10:29:40 AM
Work to Begin Date: 01/05/2012 Time: 08:00:00 AM

Company: WESTERN TECHNOLOGIES, INC
Contact Name: DAVID WAGNER Contact Phone: (505)823-4488
Alternate Contact: Alternate Phone:
Best Time to Call: Fax No: (505)821-2963
Cell Phone: (505)249-0224 Pager No:
Email: d,wagner@wt-us.comk

State: NM County: BERNALILLO City: ALBUQUERQUE
Address: 1221 , LEGION RD NE
To Address:
Nearest Intersecting Street: LOMAS BLVD NE
2nd Intersecting Street:
Subdivision:
Latitude: 35.09167450 Longitude: -106.62914600
Zip Code:
Grid:
Township: 10N Range: 03E Section 1/4: 16 SE

Location of Work: W1112290952530 == SPOT LOT AND LEGION ROAD N
SHOULDER. FENCE BETWEEN NORTH & SOUTH. NORTH
ACCESS: CAMINO DE SALUD. SOUTH ACCESS: FROM GALLES
CHEVROLET: ANDY VOGT 767-6286

Remarks: GET MAP: DAVID 249-0224 SEWER/STORM DRAINS ARE
PRIORITY. N SHOULDER OF LEGION RD FROM LOMAS NORTH
500FT
Type of Work: BORE/AUGER-MONITOR WELLS
Private Property: Y Street: Y Overhead Lines: Blasting:
Easement: Y Mechanical Boring: Premarked:
Work Being Done For:
The following utility owners have been notified:

| | | | | |
|---|---|---|---|---|
| QLNN | MCI1 | GST | COA | JONE |
| UNM | ABQWA | PNMAB | NMGAQ | |

IMPORTANT CONFIRMATION NOTICE

Your fax request has been received and processed. It is your responsibility to review the information provided on this faxback confirmation ticket and ensure it has been correctly interpreted from your request. Notify us immediately of any corrections or errors. Acceptance of this faxback confirmation ticket means you accept responsibility for the accuracy of the information contained in the ticket and you agree to indemnify New Mexico One Call Systems, Inc. of all liability, claims, fees, or damages, including reasonable attorney fees arising from or resulting from the use of the information provided on this confirmation ticket.

New Mexico Law requires you to wait two working days from the date and time of this confirmation notice before you begin excavation. This request is valid for ten working days. Only the facility owners listed on this ticket will be notified.
You can check the Locate Status of this ticket and request other tickets by visiting the our website at www.nmonecall.org.

Date: 12/29/2011 Time: 10:51 AM To: , 2011531607 @ 915058212963 N
MOC Page: 001

New Mexico One Call
Locate Request Confirmation

Header Code: STANDARD LOCATE
Request Type:

Ticket No: 2011531607 Seq. No: 0
Update of:
Original Call Date: 12/29/2011 Time: 10:46:20 AM OP: 273
Transmit Date: 12/29/2011 Time: 10:47:00 AM
Work to Begin Date: 01/03/2012 Time: 10:46:00 AM

Company: WESTERN TECHNOLOGIES INC.
Contact Name: DAVID WAGNER
Contact Phone: (505)823-4488
Alternate Contact:
Alternate Phone:
Best Time to Call:
Fax No: (505)821-2963
Cell Phone: (505)249-0224
Pager No:
Email: d.wagner@wt-us.com

State: NM County: BERNALILLO City: ALBUQUERQUE
Address: 1221 ; LEGION RD NE
To Address:
Nearest Intersecting Street: LOMAS BLVD NE
2nd Intersecting Street: LOMAS BLVD NE
Subdivision:
Latitude: 35.09241700 Longitude: -106.62960950
Zip Code:
Grid:

Location of Work: W1112291019060 SPOT LOT AND LEGION ROAD N
SHOULDER. FENCE BETWEEN NORTH & SOUTH. NORTH
ACCESS: CAMINO DE SALUD. SOUTH ACCESS: FROM GALLES
CHEVROLET: ANDY VOGT 767-6286

Remarks: GET MAP DAVID 249-0224: SEWER/STORM DRAINS ARE
PRIORITY. N SHOULDER OF LEGION RD FROM LOMAS NORTH
TO WEST 500 FEET
Type of Work: BORE/AUGER-MONITOR WELLS
Private Property: Y Street: Y Overhead Lines: Blasting:
Easement: Y Mechanical Boring: Premarked:
Work Being Done For: UNIVERSITY OF NEW MEXICO
The following utility owners have been notified:

| | | | | |
|---|---|---|---|---|
| QLNN | MCI1 | GST | COA | JONE |
| UNM | ABQWA | PNMAB | NMGAQ | |

IMPORTANT CONFIRMATION NOTICE

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New Mexico Law requires you to wait two working days from the date and time of this confirmation notice before you begin excavation. This request is valid for ten working days. Only the facility owners listed on this ticket will be notified.
You can check the Locate Status of this ticket and request other tickets by visiting the our website at www.nmonecall.org.

Excavator's information - City or town locate request


Contact name : David Wagner
Daytime Phone : (505) 823-4488
FAX : (505) 821-2963
Cell phone : (505) 249-0224
Pager :
E-mail : d.wagner@wt-us.com

Company : Western Technologies Inc.
Address # : 8305 Suite :
Street Name or PO Box : Washington Place NE
City : Albuquerque
State : New Mexico
ZIP code : 87113

Alternate Contact Name :
Alternate Contact Phone :


Working for : University of New Mexico

## Dig Site Physical Location

**City/County**

City and County Name: ALBUQUERQUE ,BERNALILLO M

**Address**

| | |
|---|---|
| Address Number: | 1221 |
| Street Name: | LEGION RD NE |
| Intersection Street 1: | LOMAS BLVD NE |
| Intersection Street 2: | LOMAS BLVD NE |

## Dig Site Information

**Work Start Date**

January 05, 2012 09:00

**Work Type**

BORE/AUGER-Monitor Wells

**Selected Dig Information**

- ☐ Dig Site Pre-marked in white
- ☒ Spot Street Right of Way
- ☒ Spot Easement
- ☒ Dig Site is on Private Property
- ☐

**Spotting / Marking**

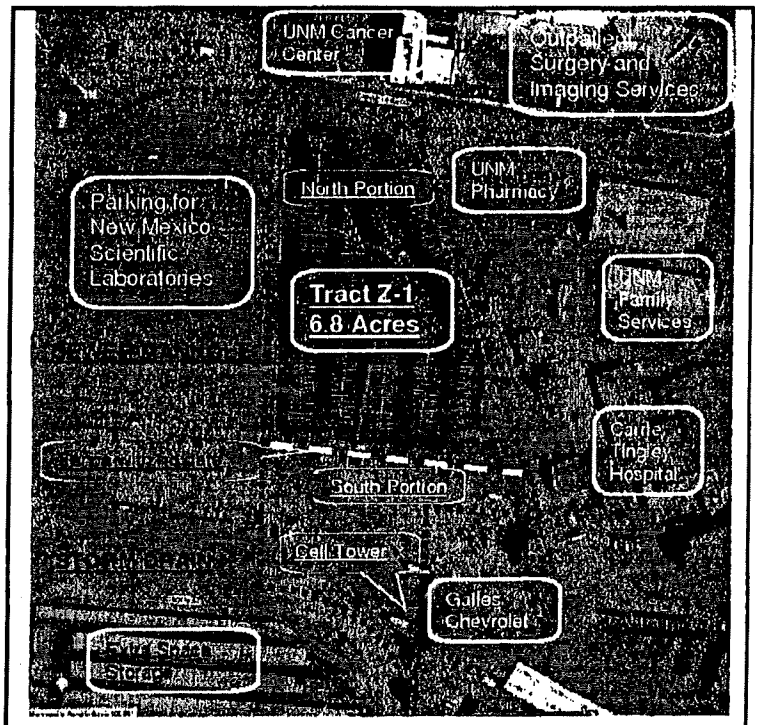
| | |
|---|---|
| Spotting Instructions including any access or hazard issues: | Spot lot and Legion Road N shoulder. Fence between North & South. North Access: Camino de Salud. South Access: From Galles Chevrolet: Andy Vogt 767-6286 |
| Remarks: | GET MAP David 249-0224: Sewer/Storm drains are priority. N shoulder of |

Legion Rd from Lomas north to west 500 feet

Sketch

If the sketch is not correct, please click on refresh Refresh

Sketch is shown as 53% of the original size
Click on the sketch to see the original one.




**Map for NM ONE CALL UTILITY LOCATE**
**SEWER & STORM DRAINS ARE A PRIORITY!**

North Portion accessed from Camino de Salud: South of UNM Cancer Center: OPEN
Legion Road north shoulder: Access from Legion Road from Lomas Boulevard: OPEN
South Portion accessed from Galles Chevrolet: Call Andy Vogt: 767-6286

| Commercial Property<br>Tract Z-1: 1221 Legion Road NE<br>Albuquerque, New Mexico 87102 | |
|---|---|
| 2010 Aerial Photograph | |
| WESTERN TECHNOLOGIES INC. | |
| Job No.: 32871V227 | Figure 3 |

Important Notice

A confirmation of the above information will be sent to you by E-mail. Verify all information for accuracy. New Mexico One Call only notifies member utilities; any utilities in the area of the excavation that are not listed on the confirmation, should be called directly.

New Mexico One Call has 3 hours to enter this Web Ticket request provided New Mexico One Call received it by 4:00 p.m. on the work day it was submitted. (Monday thru Friday, excluding holidays). If New Mexico One Call receives your Web Ticket request after 4:00 p.m. or on a weekend or a holiday, New Mexico One Call has until 10:00 a.m. the following work day morning (Monday thru Friday, excluding weekends and holidays) to enter the ticket. You agree and understand that the two business day notification starts on the above mentioned times. The underground facility owners listed on your ticket copy should have their facilities marked by the "Work To Begin Date and Time".

New Mexico One Call is not responsible for lost or misdirected E-mail. It is the responsibility of the requestor to contact New Mexico One Call by phone within a reasonable time after submission if you have not received your confirmation within 3 hours.

You cannot legally start digging until two working days after the date and time on your confirmation.

If any errors are detected on the confirmation, please call New Mexico One Call immediately so a correction notice can be issued.

Western Technologies Inc.

David Wagner <d.wagner@wt-us.com>

# Message from CenturyLink

1 message

**IRTH.Net@qwest.com <IRTH.Net@qwest.com>** **Wed, Jan 4, 2012 at 5:43 PM**
To: d.wagner@wt-us.com

==========

To: WESTERN TECHNOLOGIES INC. Attn: DAVID WAGNER
Voice: 5058234488 Fax: 5058212963
Re: Message from CenturyLink

Message from CenturyLink

==========

Ticket: 2011531607
County: BERNALILLO Place: ALBUQUERQUE
Address: 1221 LEGION RD NE

QLNN:
The described dig area of your locate request has been checked and is clear for Qwest Communication's Local Network. If you have any questions please call Qwest at 1-800-283-4237.

==========

Message from CenturyLink

==========

This message was generated by an automated system. Please do not reply to this email.

Western Technologies Inc.

David Wagner <d.wagner@wt-us.com>

# Comcast's Response to Locate Request

2 messages

**agt_comm@irth.com <agt_comm@irth.com>** **Tue, Jan 3, 2012 at 5:14 PM**
To: d.wagner@wt-us.com

==========

To: WESTERN TECHNOLOGIES INC. Attn: DAVID WAGNER
Voice: 5058234488 Fax: 5058212963
Re: Comcast's Response to Locate Request

This is an important courtesy message, in response to your locate request for underground facility markings. [Este es un mensaje importante de turismo (de cortesia), en respuesta a su solicitud de contado de las marcas de instalacion subterranea.]

==========

Ticket: 2011531607
County: BERNALILLO Place: ALBUQUERQUE
Address: 1221 LEGION RD NE

JONE:
Based on the description provided on your spot request ticket, identified above, Comcast facilities are not believed to be in conflict and you may proceed with your excavation. (la descripcion facilitada en su solicitud, identificados anteriormente, las instalaciones de Comcast no se cree que esta en conflicto y que podra proceder a su excavacion.)

==========

If you have any questions, please contact Comcast's locate contractor, "ELM Locating Services", at 888-728-9343. Thank you for contributing toward a safe excavation. Have a great day. [Si usted tiene alguna pregunta, pongase en contacto con el contratista; "ELM Locating Servicios", en 888-728-9343. Gracias por contribuir a una excavacion segura. Que tenga un gran dia.]

==========

This message was generated by an automated system. Please do not reply to this email.

---

**agt_comm@irth.com <agt_comm@irth.com>** **Tue, Jan 3, 2012 at 5:14 PM**
To: d.wagner@wt-us.com

==========

To: WESTERN TECHNOLOGIES, INC Attn: DAVE WAGNER
Voice: 5058234488 Fax: 5058212963
Re: Comcast's Response to Locate Request

This is an important courtesy message, in response to your locate request for underground facility markings. [Este es un mensaje importante de turismo (de cortesia), en respuesta a su solicitud de contado de las marcas de instalacion subterranea.]

==========

Ticket: 2011531516
[Quoted text hidden]

Western Technologies Inc.

David Wagner <d.wagner@wt-us.com>

# Message from CenturyLink

1 message

**IRTH.Net@qwest.com <IRTH.Net@qwest.com>** **Tue, Jan 3, 2012 at 11:12 AM**
To: d.wagner@wt-us.com

==========

To: WESTERN TECHNOLOGIES INC. Attn: DAVID WAGNER
Voice: 5058234488 Fax: 5058212963
Re: Message from CenturyLink

Message from CenturyLink

==========

Ticket: 2011531607
County: BERNALILLO Place: ALBUQUERQUE
Address: 1221 LEGION RD NE

QLNN:
The locator and the contractor have mutually agreed upon a new due date for this ticket. Marking of any Qwest Communications Local Network facilities will not be complete until the new due date. If you have any questions, please call Qwest at 1-800-283-4237.

==========

Message from CenturyLink

==========

This message was generated by an automated system. Please do not reply to this email.