3R-1001

2013 Annual Monitoring Report Date: 5/20/2014

Enterprise Products

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

ENTERPRISE PRODUCTS OPERATING LLC

May 20, 2014

Return Receipt Requested
7011 3500 0002 5551 0263

Mr. Jim Griswold, Senior Hydrologist
Environmental Bureau
ENMRD/Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Annual Groundwater Monitoring Report (2013 Sampling Events)
Largo Compressor Station
Enterprise Field Services, LLC
OCD RP# 3R-1001
OCD GW Discharge Permit Number: GW-211
Rio Arriba County, New Mexico

Dear Mr. Griswold,

Enterprise Field Services, LLC (Enterprise) is submitting two (2) copies of the enclosed *Annual Groundwater Monitoring Report (2013 Sampling Events)*, for the facility referenced above. Groundwater conditions are monitored at four primary investigation areas, Area 1 (Condensate Storage Tank Area), Area 2 (Valve Box Area), Area 3 (Retention Pond Area), and Area 4 (Compression and Dehydration Area).

Previously submitted reports for this facility also include the *Interim Remedial Investigation Report* dated May 15, 2010, the *Proposed Facility-Wide Soil and Groundwater Investigation and Remedial Activities* report dated June 10, 2010, and the *Environmental Site Investigation – Largo Compressor Station (GW-211), dated March 24, 2011.*

Due to recent increases in dissolved-phase benzene concentrations at downgradient monitor well location MW-47, Enterprise is currently planning additional groundwater investigations of this area. MW-47 is located downgradient of the former facility condensate tank locations. The OCD local office will be notified prior to the investigation. If you have any questions, or require additional information, please do not hesitate to contact me at (713) 381-2286, or drsmith@eprod.com.

Sincerely,

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

Gregory E. Miller, P.G.
Supervisor, Environmental

/dep
Enclosures (2)

cc: Brandon Powell, New Mexico Oil Conservation Division, 1000 Rio Brazos Road, Aztec, NM 87410
H. C. Berry, P.O. Box 579, Dexter, NM 88230

ec: Chris Mitchell, APEX (formerly Southwest Geoscience)
Kyle Summers, APEX (formerly Southwest Geoscience)

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ANNUAL GROUNDWATER MONITORING REPORT
(2013 Sampling Events)

GROUNDWATER DISCHARGE PLAN GW-211

Property:

LARGO COMPRESSOR STATION
Section 15, Township 26N, Range 7W
Rio Arriba County, New Mexico
SWG Project No. 0410G002
January 9, 2014

Prepared for:
Enterprise Field Services, LLC
P.O. Box 4324
Houston, Texas 77210-4324
Attention: Mr. David R. Smith, P.G.

PREPARED BY:

Kyle Summers, C.P.G.
Senior Geologist/
Manager, Four Corners

B. Chris Mitchell, P.G.
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(2013 Sampling Events)
GROUNDWATER DISCHARGE PLAN GW-211

LARGO COMPRESSOR STATION
Section 15, Township 26N, Range 7W
Rio Arriba County, New Mexico
SWG Project No. 0410G002

1.0 INTRODUCTION

1.1 Site Description & Background

The Largo Compressor Station is located off of County Road (CR) 379 in Section 15, Township 26N, Range 7W in Rio Arriba County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is a natural gas compressor station utilized to dehydrate and compress natural gas collected from production wells in the area for transportation via pipeline. The Site was constructed in the mid-1960s and currently includes two (2) compressor engines, a dehydration unit and related treater, one (1) bullet storage tank, a new condensate storage tank battery, which includes seven (7) new condensate storage tanks, inlet scrubbers, a control room, and an office/shop building.

The Site is subject to regulatory oversight by the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD). To address activities related to crude oil/condensate related releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the EMNRD/OCD rules, specifically New Mexico Administrative Code (NMAC) 19.15.30 Remediation. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

The Site location is depicted on Figure 1 of Appendix A which was reproduced from a portion of the United States Geological Survey (USGS) 7.5-minute series topographic map. A Site vicinity map, created from an aerial photograph, is provided as Figure 2 of Appendix A.

The areas of known or suspected impact at the Site have been previously identified as Areas 1 through 4 in OCD correspondence. Each of the areas is depicted on Figure 3 in relation to pertinent Site features and general Site boundaries. These areas are briefly described below:

<u>Area 1 (Former Condensate Storage Tank Area)</u>

Area 1 is defined as the northwestern portion of the Site and includes the former condensate storage tank battery associated with on-going investigation and/or corrective actions since a release from a condensate storage tank valve was reported to the OCD in January of 2008. Additional detail regarding the investigative and corrective activities at Area 1 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211) (Southwest Geoscience (SWG) - March 24, 2011)*, and the

Corrective Action Pilot Study Report (SWG – October 10, 2011). The old condensate storage tanks were physically removed from Area 1 during July/August 2012.

Area 2 (Valve Box Area)

Area 2 includes the new condensate storage tank battery and the immediately surrounding areas. This area is in the north central portion of the Site, immediately south of CR 379. During the construction of the new tank battery in June 2009, petroleum hydrocarbon impacted soils and groundwater were encountered in association with a former valve box and related appurtenances. Additional detail regarding the investigative and corrective activities at Area 2 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211) (SWG - March 24, 2011).*

Area 3 (Retention Pond Area)

Area 3 encompasses the northeast portion of the Site including the storm-water retention pond. Historical petroleum hydrocarbon affected soil and groundwater were identified during the construction of the retention pond in July of 2009, which apparently originated from historic oil and contact water treatment and storage in the area of the current retention pond. Additional detail regarding the investigative and corrective activities at Area 3 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211) (SWG - March 24, 2011),* and the *Supplemental Site Investigation & Quarterly Groundwater Monitoring Report (April 2012) (SWG – June 31, 2012).*

Area 4 (Compression & Dehydration Area)

Area 4 includes the remainder of the Site, which includes the active compression and treatment area comprised of two (2) compressor engines, a dehydration unit and related inlet scrubbers. Soil and groundwater investigation activities pertaining to Area 4 are provided in the *Environmental Site Investigation – Largo Compressor Station (GW-211) (SWG - March 24, 2011),* and the *Supplemental Site Investigation & Quarterly Groundwater Monitoring Report (April 2012) (SWG – June 31, 2012).*

1.2 Scope of Work

The objective of the groundwater monitoring events was to further evaluate the concentrations of constituents of concern (COCs) in groundwater at the Site.

1.3 Standard of Care & Limitations

The findings and recommendations contained in this report represent SWG's professional opinions based upon information derived from on-Site activities and other services performed under this scope of work and were arrived at in accordance with currently acceptable professional standards. The findings were based upon analytical results provided by an independent laboratory. Evaluations of the geologic/hydrogeologic conditions at the Site for the purpose of this investigation are made from a limited number of available data points (i.e. soil borings and ground water samples) and site wide subsurface conditions may vary from these data points. SWG makes no warranties, express or implied, as to the services performed hereunder.

Additionally, SWG does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties).

This report is based upon a specific scope of work requested by Enterprise Field Services LLC (Enterprise). The agreement between SWG and Enterprise outlines the scope of work, and only those tasks specifically authorized by that agreement or outlined in this report were performed. This report has been prepared for the intended use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and SWG.

2.0 SAMPLING PROGRAM

Semi-annual groundwater sampling events were conducted during April and October 2013 by SWG environmental professionals Aaron Bryant, Joseph Doyle, Aaron Bentley, and Kyle Summers.

SWG's groundwater sampling program consisted of the following:

Prior to sample collection, SWG gauged the depth to fluids in each monitoring well using an interface probe capable of detecting light non-aqueous phase liquids (LNAPL). Monitoring wells exhibiting measurable LNAPL were not sampled during the completion of the groundwater monitoring events.

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

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

Subsequent to the completion of the micro-purge process, one (1) groundwater sample was collected from each monitoring well not observed to contain LNAPL. The groundwater samples were collected from each monitoring well once produced groundwater was consistent in color, clarity, pH, DO, ORP, temperature and conductivity.

Groundwater samples were collected in laboratory supplied containers, sealed with custody tape and placed on ice in a cooler secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Hall Environmental

Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

3.0 LABORATORY ANALYTICAL PROGRAM

The groundwater samples collected from the monitoring wells during the groundwater sampling events were analyzed for total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) utilizing EPA method SW-846#8015, and benzene, toluene, ethylbenzene and xylenes (BTEX) utilizing EPA method SW-846 #8021. The containers containing the samples for organic analyses were pre-preserved with $HgCl_2$.

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

Analysis	Sample Type	No. of Samples	Method
TPH GRO/DRO	Groundwater	27 (April)	SW-846# 8015M
	Groundwater	33 (October)	SW-846# 8015M
BTEX	Groundwater	27 (April)	SW-846# 8021B
	Groundwater	33 (October)	SW-846# 8021B

Laboratory results are summarized in Table 1 included in Appendix B. The executed chain-of-custody form and laboratory data sheets are provided in Appendix C.

4.0 GROUNDWATER FLOW DIRECTION

Each of the monitoring wells has been surveyed for top-of-casing (TOC) elevations. Prior to sample collection, SWG gauged the depth to fluids in each monitoring well. Based on 2013 data, the groundwater flow direction at the Site is generally towards the northwest, with a gradient of approximately 0.003 to 0.004 ft/ft across the Site.

Groundwater measurements collected during the most recent gauging event are presented with TOC elevations in Table 2, Appendix B. Groundwater gradient maps for the April and October 2013 events are included as Figures 4A and 4B (Appendix A), respectively.

5.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address activities related to crude oil/condensate related releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the EMNRD/OCD rules, specifically NMAC 19.15.30 Remediation. These guidance documents establish investigation and abatement action requirements for

sites subject to reporting and/or corrective action.

5.1 Groundwater Samples

SWG compared BTEX concentrations or laboratory reporting limits (RLs) associated with the groundwater samples collected from monitoring wells during the April 2013 and October 2013 sampling events to the New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards;* however, the New Mexico WQCC *Groundwater Quality Standards* may not be applicable since the initial groundwater-bearing unit may not be considered an "Underground Source of Drinking Water" in accordance with 19.15.30 NMAC *Remediation* due to elevated Total Dissolved Solids concentrations. The results of the groundwater sample analyses are summarized in Table 1 of Appendix B.

April 2013

Benzene, Toluene, Ethylbenzene, and Xylenes

Due to the presence of LNAPL hydrocarbons in association with the initial groundwater-bearing unit, monitoring wells MW-33 and MW-35 were not sampled during the completion of field activities. In addition, due to the absence of groundwater (monitoring well was dry), a groundwater sample was not collected from monitoring well MW-42 during the April 2013 groundwater sampling event.

The groundwater samples collected from monitoring wells MW-7, MW-11, MW-12, MW-16, MW-37, MW-48, and MW-52 exhibited benzene concentrations ranging from 10 µg/L to 6,900 µg/L, which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit benzene concentrations above the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater sample collected from monitoring wells MW-12 and MW-37 exhibited toluene concentrations of 150 µg/L and 260 µg/L, respectively, which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit toluene concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from monitoring wells MW-7, MW-11, MW-12, MW-37, MW-47, MW-48, MW-51, and MW-55 exhibited ethylbenzene concentrations ranging from 1.5 µg/L (at MW-11) to 230 µg/L (at MW-37), which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit ethylbenzene concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from monitoring wells MW-12, MW-37, and MW-55 exhibited xylenes concentrations ranging from 710 µg/L (at MW-55) to 1,100 µg/L (at MW-37), which exceed the WQCC *Groundwater Quality Standard* of 620 µg/L. The

groundwater sample collected from monitoring well MW-48 exhibited a xylenes concentration of 310 µg/L, which is below the WQCC *Groundwater Quality Standard* of 620 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit xylene concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 620 µg/L.

TPH Gasoline Range Organics/Diesel Range Organics

The groundwater samples collected from the monitoring wells during April 2013 exhibited TPH GRO concentrations ranging from <0.050 mg/L to 23 mg/L, and TPH DRO concentrations ranging from <1.0 mg/L to 5.8 mg/L. The highest GRO concentration during the April 2013 sampling event was observed in the groundwater sample from monitoring well MW-12 (23 mg/L) and the highest DRO concentration was also observed in the sample from MW-12 (5.8 mg/L).

October 2013

Benzene, Toluene, Ethylbenzene, and Xylenes

Due to the presence of LNAPL hydrocarbons in association with the initial groundwater-bearing unit, monitoring wells MW-33 and MW-35 were not sampled during the completion of field activities. In addition, due to the absence of groundwater (monitoring well was dry), a groundwater sample was not collected from monitoring well MW-42 during the October 2013 groundwater sampling event. Please note, monitoring wells MW-11 and MW-12 were plugged and abandoned during the completion of corrective action activities in September 2013.

The groundwater samples collected from monitoring wells MW-7, MW-16, MW-37, MW-39, MW-47, and MW-48 exhibited benzene concentrations ranging from 11 µg/L (at MW-16) to 580 µg/L (at MW-37), which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit benzene concentrations above the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater sample collected from MW-37 exhibited a toluene concentration of 170 µg/L which is below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit toluene concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from monitoring wells MW-16,MW-37, MW-47, MW-48, and MW-55 exhibited ethylbenzene concentrations ranging from 1.2 µg/L (at MW-16) to 150 µg/L (at MW-37), which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit ethylbenzene concentrations above the laboratory RLs, which are below the WQCC

Groundwater Quality Standard of 750 µg/L.

The groundwater samples collected from monitoring wells MW-37 and MW-48 exhibited xylenes concentrations of 610 µg/L and 83 µg/L, respectfully, which are below the WQCC *Groundwater Quality Standard* of 620 µg/L.

The groundwater samples collected from the remaining monitoring wells did not exhibit xylenes concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 620 µg/L.

TPH Gasoline Range Organics/Diesel Range Organics

The groundwater samples collected from the monitoring wells during October 2013 exhibited TPH GRO concentrations ranging from <0.050 mg/L to 10 mg/L, and TPH DRO concentrations ranging from <1.0 mg/L to 7.7 mg/L. The highest GRO concentration during the October 2013 sampling event was observed in the groundwater sample from monitoring well MW-37 (10 mg/L) and the highest DRO concentration was also observed in the sample from MW-37 (7.7 mg/L).

6.0 FINDINGS

During April and October 2013, SWG conducted semi-annual groundwater monitoring events at the Largo Compressor Station. The Site is a natural gas compressor station utilized to dehydrate and compress natural gas collected from production wells in the area for transportation via pipeline. The Site was constructed in the mid-1960s, and is located off of CR 379 in Section 15, Township 26N, Range 7W in Rio Arriba County, New Mexico. The objective of the groundwater monitoring event was to further evaluate the concentrations of COCs in groundwater.

- Prior to sample collection during each event, SWG gauged the depth to fluids in each monitoring well using an interface probe capable of detecting LNAPL. **Monitoring wells MW-33 and MW-35 exhibited LNAPL during the April and October 2013 events and were not sampled. Monitoring wells MW-12 and MW-37 did not exhibit a measurable LNAPL sheen during 2013 as was observed during the October 2012 sampling event.**

- Monitoring wells MW-11 and MW-12 were removed in September 2013 during soil remediation activities at Area 1.

- During the completion of the sampling event, one (1) groundwater sample was collected from each monitoring well utilizing low-flow sampling techniques. Monitoring well MW-42 was effectively dry during the 2013 sampling events and was not sampled.

- The groundwater flow direction at the Site is generally towards the northwest, with an approximate gradient of 0.003 to 0.004 ft/ft across the Site.

- **During the April 2013 event, the groundwater samples collected from monitoring wells MW-7, MW-11, MW-12, MW-16, MW-37, MW-48, and MW-52 exhibited benzene concentrations ranging from 10 µg/L to 6,900 µg/L, which exceed the**

WQCC *Groundwater Quality Standard* of 10 µg/L.

- During the April 2013 event, the groundwater samples collected from monitoring wells MW-12, MW-37, and MW-55 exhibited xylenes concentrations ranging from 710 µg/L (at MW-55) to 1,100 µg/L (at MW-37), which exceed the WQCC *Groundwater Quality Standard* of 620 µg/L.

- During the October 2013 event, the groundwater samples collected from monitoring wells MW-7, MW-16, MW-37, MW-39, MW-47, and MW-48 exhibited benzene concentrations ranging from 11 µg/L (at MW-16) to 580 µg/L (at MW-37), which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L.

- The groundwater samples collected from monitoring wells MW-52 and MW-55 demonstrated COC exceedances for the first time during the April 2013 event, but the elevated results did not repeat during the October 2013 event. These occurrences will be evaluated against future monitoring event results to determine if additional delineation activities are required.

- The groundwater sample collected from monitoring well MW-47 during the October 2013 event demonstrated a benzene concentration of 190 µg/L, which significantly exceeds the WQCC Groundwater Quality Standard of 10 µg/L. The highest previously observed benzene concentration at MW-47 was 11 µg/L from the April 2012 sampling event. This occurrence will be evaluated against future monitoring event results to determine if additional delineation activities are required, and the monitoring well may be re-sampled to verify the result.

- In general, the COC concentrations in groundwater across the Site declined with respect to the October 2012 monitoring results, possibly due to the recent winter thaw which has also resulted in above-average water level elevations from melt-water infiltration (April 2013 event) combined with atypically heavy rain/flooding events in the late Summer (October 2013 event). An acute hydrologic event, such as the late Summer flooding, may also serve to increase the plume migration rate, as potentially witnessed in the benzene results from the October 2013 sampling of monitoring well MW-47.

7.0 RECOMMENDATIONS

Based on the results of groundwater monitoring activities, SWG has the following recommendations:

- Report the groundwater monitoring results to the OCD;

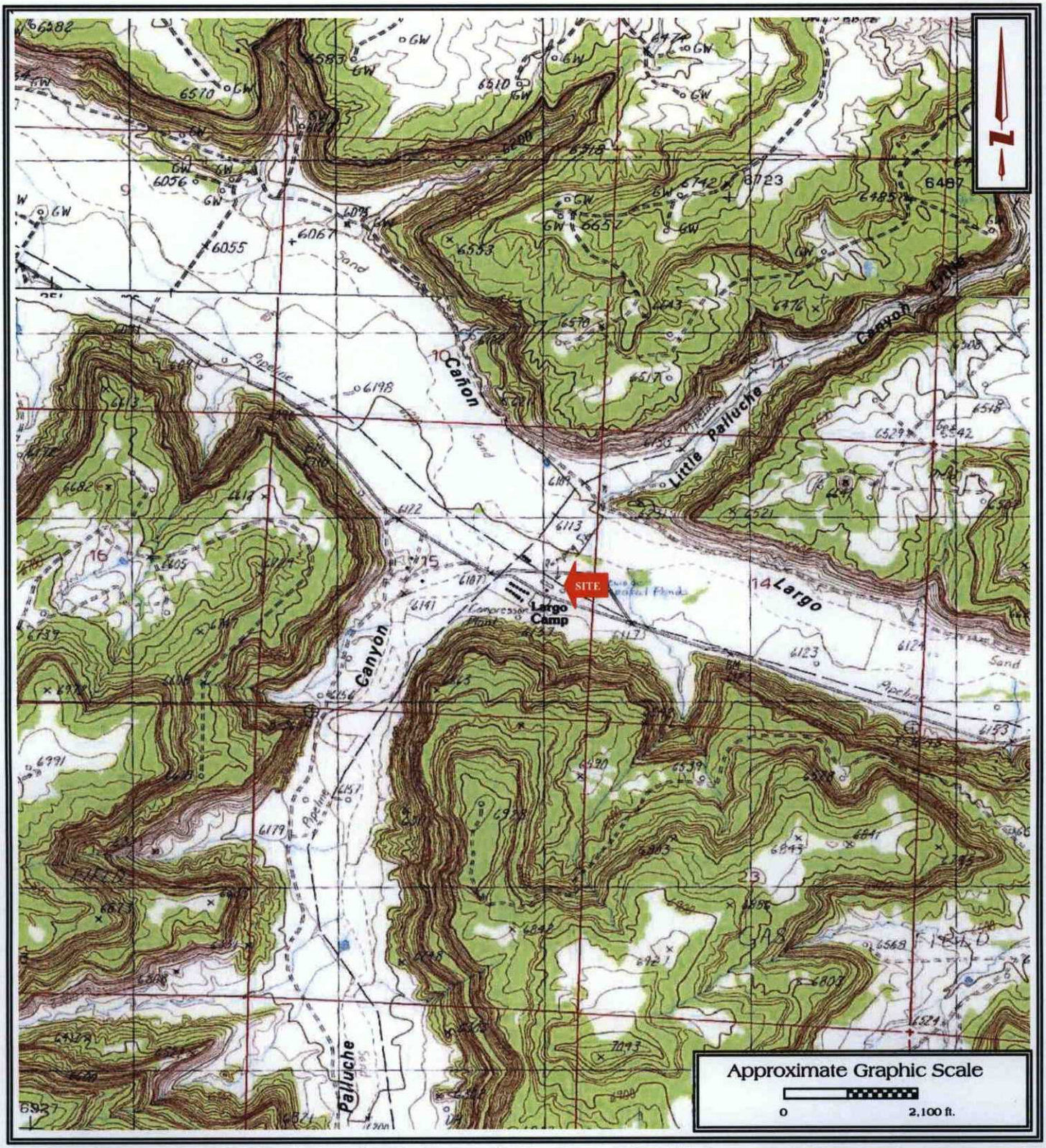
- Evaluate the next monitoring event data for monitoring well MW-47 to verify the October 2013 benzene results; and

- Continue the scheduled execution of corrective actions to: 1.) Reduce the concentrations of COCs in soil to below the OCD *Remediation Action Levels* and; 2.) Remove LNAPL from groundwater at the Site to the extent practical, and continue to develop and execute groundwater remediation strategies once the bulk of the soils have been removed/remediated.

Southwest GEOSCIENCE

APPENDIX A

Figures



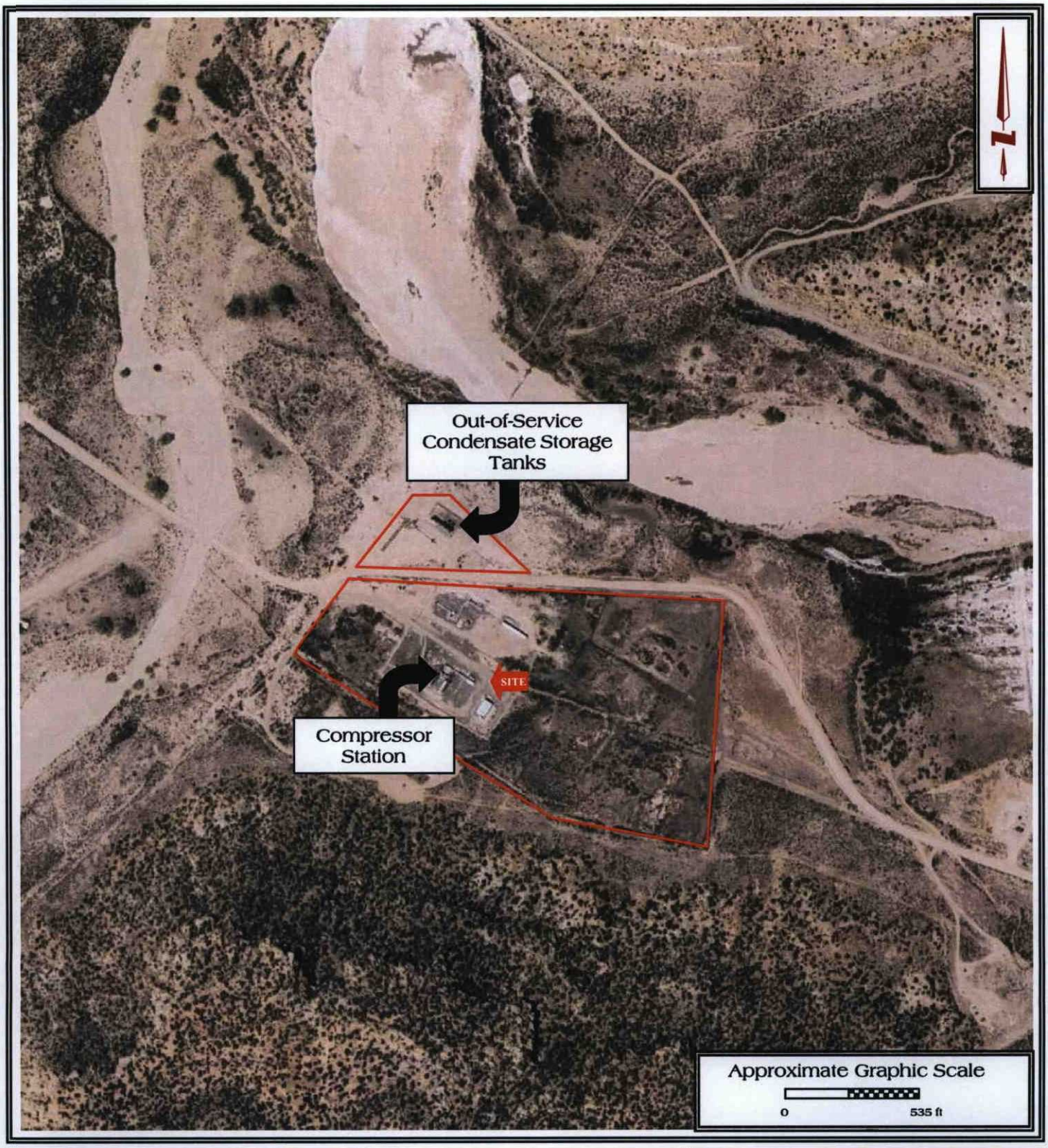
Largo Compressor Station
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

SWG Project No. 0410002

Southwest GEOSCIENCE

FIGURE 1

Topographic Map
Smouse Mesa & Gould Pass, NM Quadrangle
Contour Interval – 20 Feet
1985

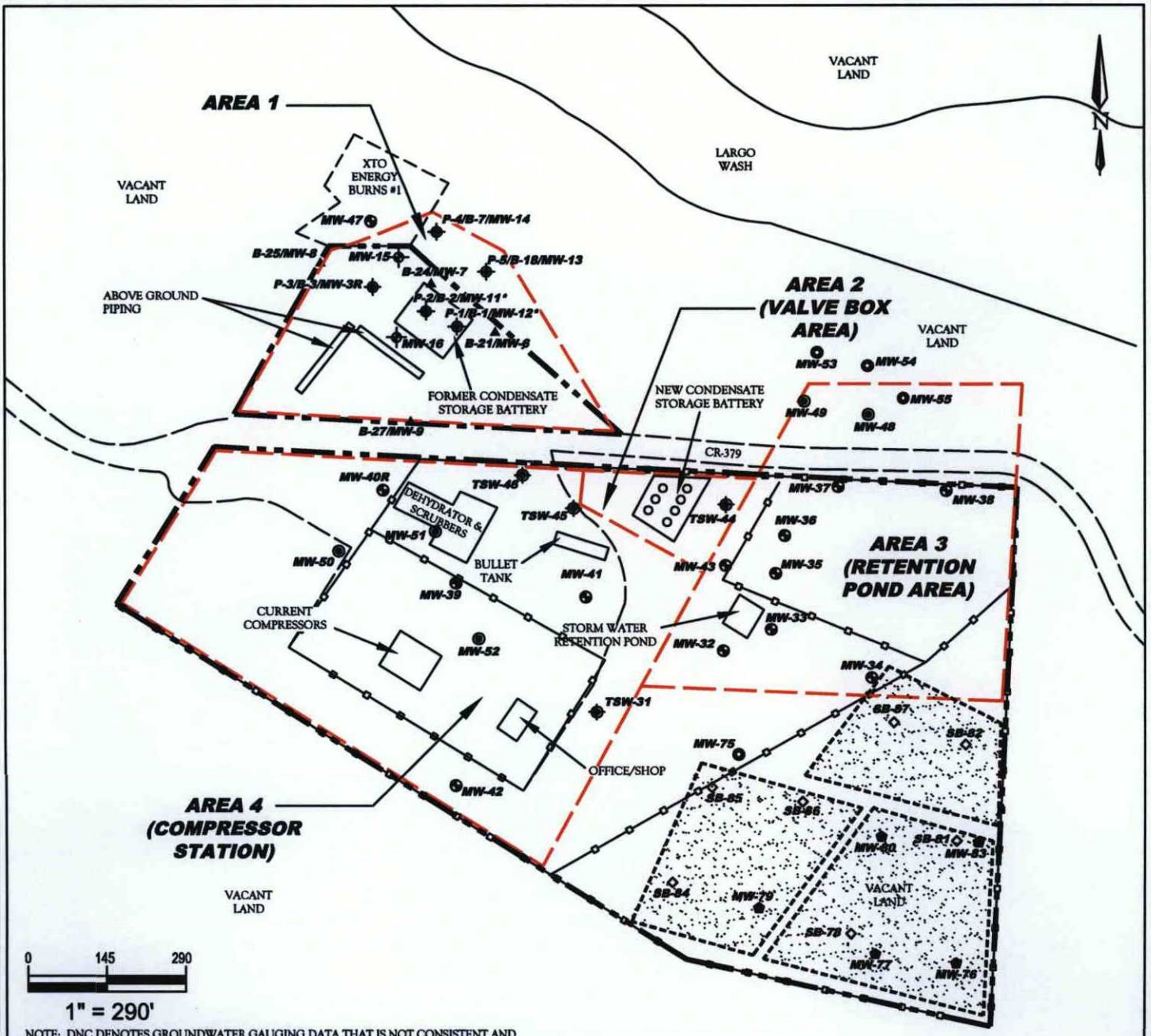


Largo Compressor Station
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

SWG Project No. 0410002

Southwest GEOSCIENCE

FIGURE 2
Site Vicinity Map
2010 Google Earth



NOTE: DNC DENOTES GROUNDWATER GAUGING DATA THAT IS NOT CONSISTENT AND SUBSEQUENTLY WAS NOT USED TO CREATE THE GROUNDWATER ELEVATION CONTOURS
* DENOTES PLUGGED AND ABANDONED WELLS ON SEPTEMBER 2013

LEGEND:

- SITE BOUNDARY
- GRAVEL
- FENCE
- BERM
- TREATMENT AREA
- SOIL BORING INSTALLED BY SWG (MAY 2013)
- MONITORING WELL INSTALLED BY SWG (MAY 2013)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2012/ JANUARY 2013)
- MONITORING WELL INSTALLED BY SWG (APRIL 2012)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (AUGUST 2009)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH/APRIL 2008)
- MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH 2010)
- TEMPORARY SAMPLING WELL INSTALLED BY SWG (NOVEMBER 2010)

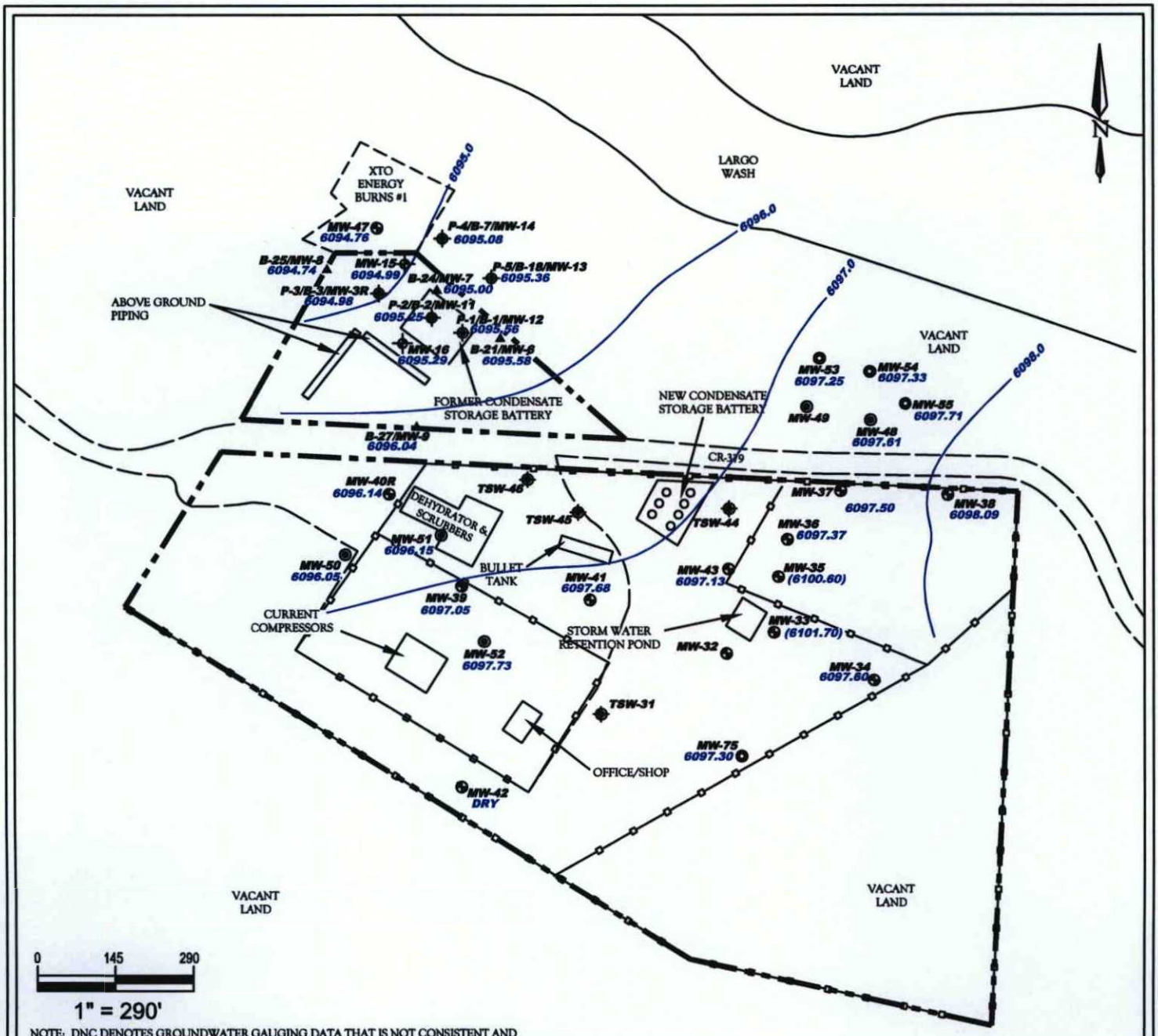
Largo Compressor Station
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

SWG Project No. 0410002

Southwest GEOSCIENCE

FIGURE 3

SITE MAP



NOTE: DNC DENOTES GROUNDWATER GAUGING DATA THAT IS NOT CONSISTENT AND SUBSEQUENTLY WAS NOT USED TO CREATE THE GROUNDWATER ELEVATION CONTOURS

LEGEND:

- SITE BOUNDARY
- GRAVEL
- FENCE
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2012/ JANUARY 2013)
- MONITORING WELL INSTALLED BY SWG (APRIL 2012)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (AUGUST 2009)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH/APRIL 2008)
- MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH 2010)
- TEMPORARY SAMPLING WELL INSTALLED BY SWG (NOVEMBER 2010)
- 6098.42 GROUNDWATER ELEVATION (FEET AMSL)
- (6094.83) GROUNDWATER ELEVATION EXCLUDED FROM GRADIENT CALCULATION (FEET AMSL)
- 6095 GROUNDWATER ELEVATION CONTOUR (FEET AMSL) (CONTOUR INTERVAL = 0.5 FT)

Largo Compressor Station
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

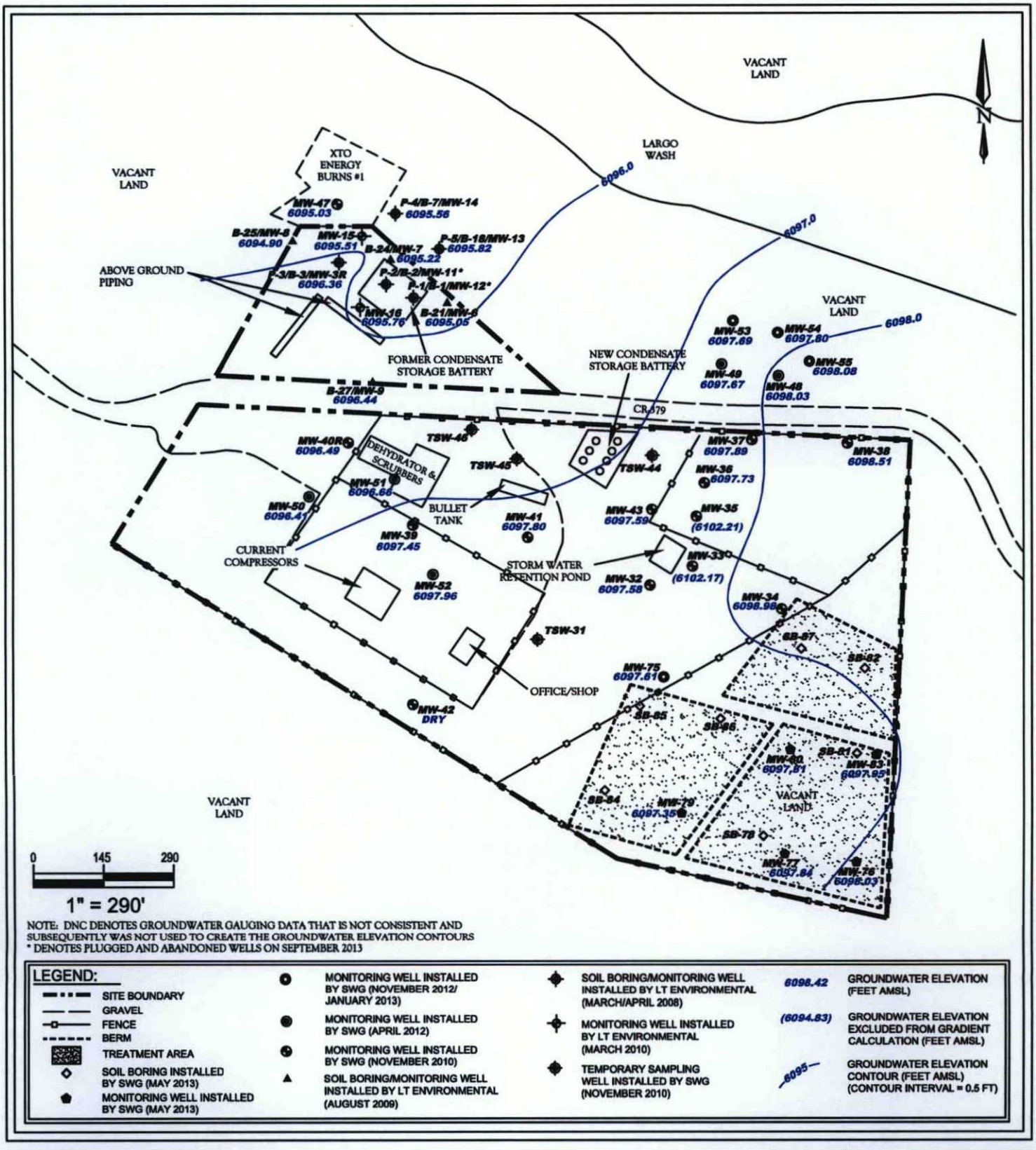
SWG Project No. 0410002

Southwest GEOSCIENCE

FIGURE 4A

GROUNDWATER GRADIENT MAP

APRIL 2013



NOTE: DNC DENOTES GROUNDWATER GAUGING DATA THAT IS NOT CONSISTENT AND SUBSEQUENTLY WAS NOT USED TO CREATE THE GROUNDWATER ELEVATION CONTOURS
* DENOTES PLUGGED AND ABANDONED WELLS ON SEPTEMBER 2013

LEGEND:

- SITE BOUNDARY
- GRAVEL
- FENCE
- BERM
- TREATMENT AREA
- SOIL BORING INSTALLED BY SWG (MAY 2013)
- MONITORING WELL INSTALLED BY SWG (MAY 2013)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2012/ JANUARY 2013)
- MONITORING WELL INSTALLED BY SWG (APRIL 2012)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (AUGUST 2009)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH/APRIL 2008)
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Largo Compressor Station
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

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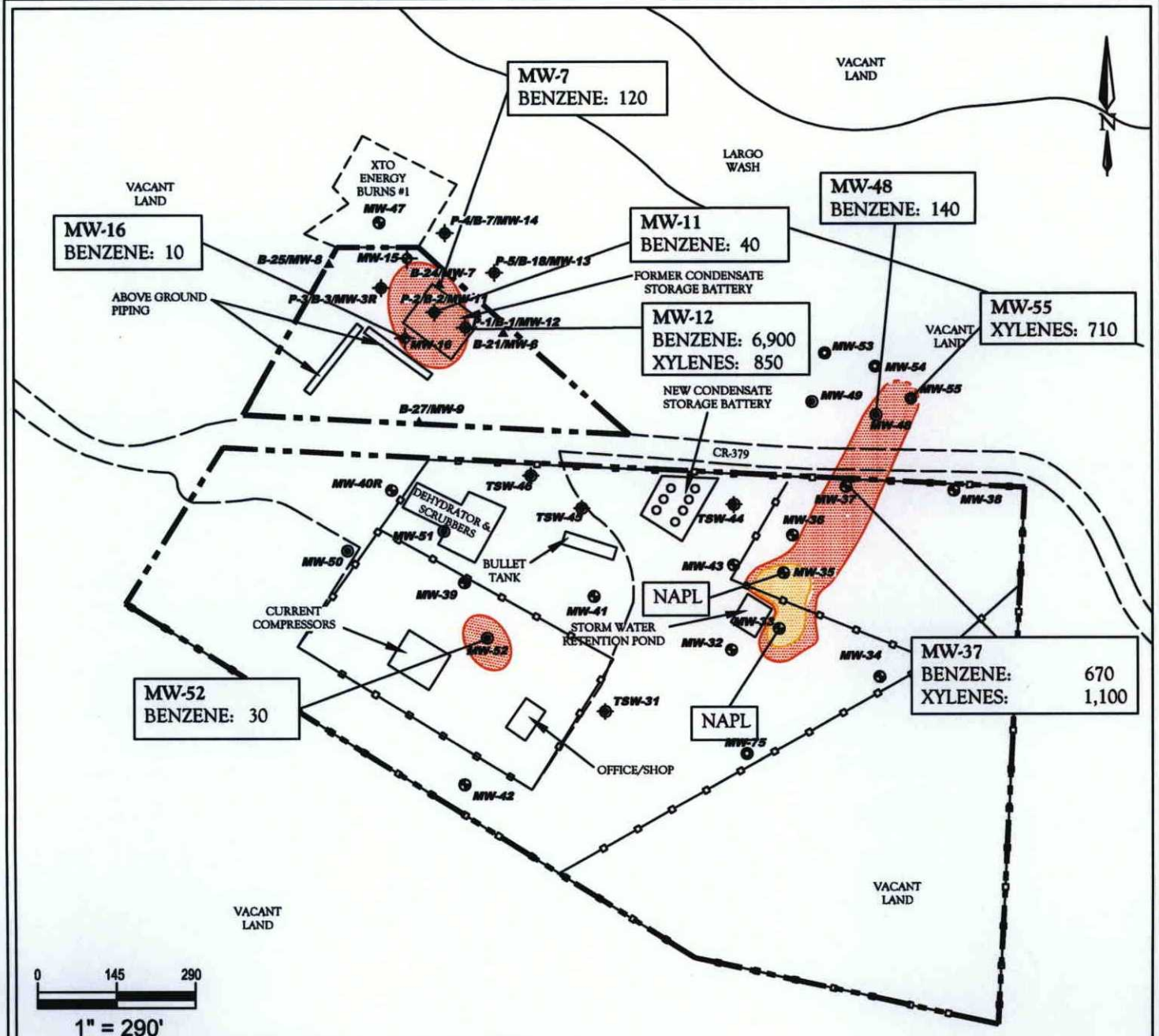
Southwest GEOSCIENCE

FIGURE 4B

GROUNDWATER GRADIENT MAP

OCTOBER 2013



NOTE: DNC DENOTES GROUNDWATER GAUGING DATA THAT IS NOT CONSISTENT AND SUBSEQUENTLY WAS NOT USED TO CREATE THE GROUNDWATER ELEVATION CONTOURS

NOTE: ALL VALUES ARE REPORTED IN ug/L

LEGEND:

- SITE BOUNDARY
- GRAVEL
- FENCE
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2012/ JANUARY 2013)
- MONITORING WELL INSTALLED BY SWG (APRIL 2012)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (AUGUST 2009)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH/APRIL 2008)
- MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH 2010)
- TEMPORARY SAMPLING WELL INSTALLED BY SWG (NOVEMBER 2010)
- GQS EXCEEDANCE ZONE
- NAPL PLUME

Largo Compressor Station
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

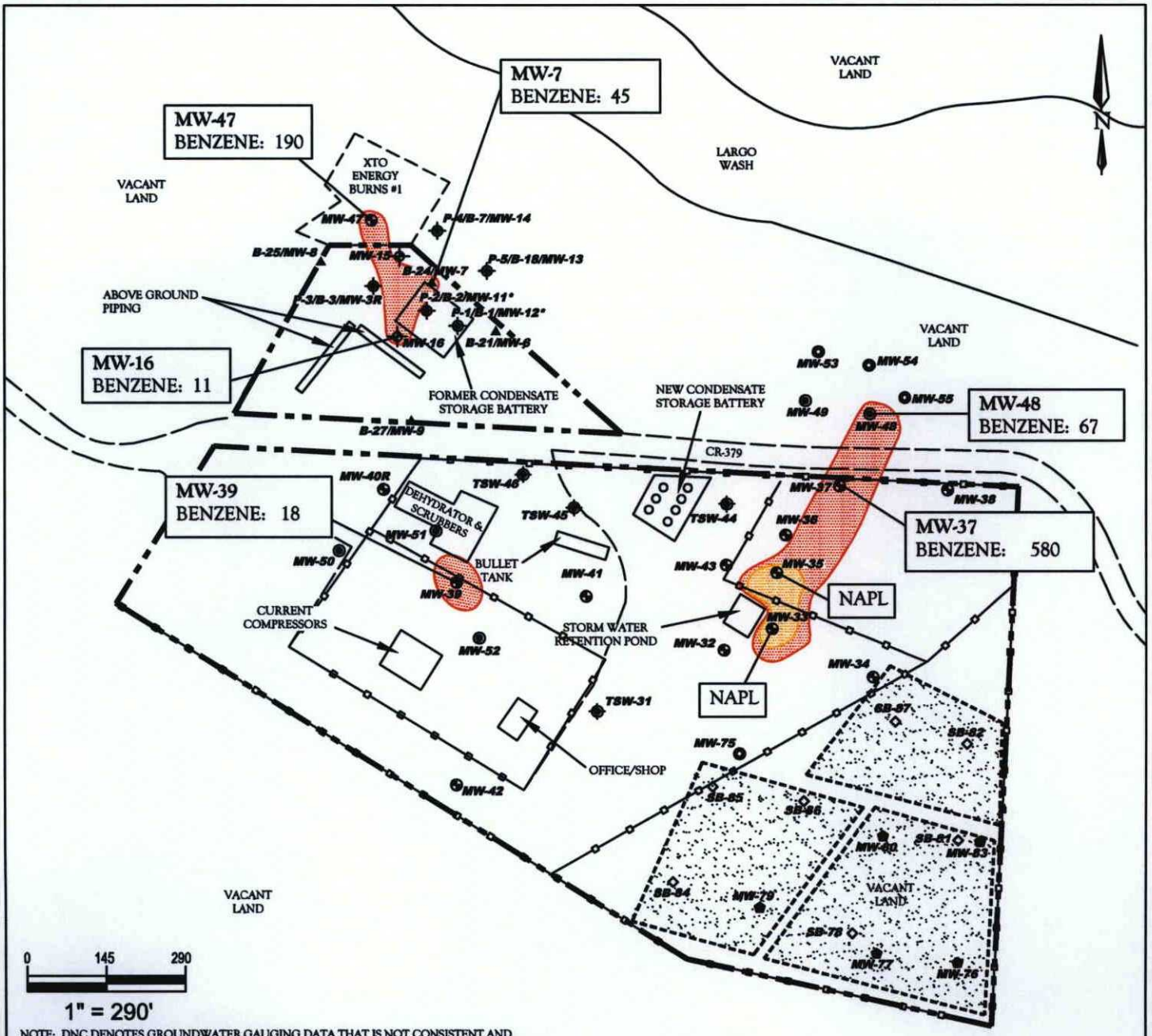
SWG Project No. 0410002

Southwest GEOSCIENCE

FIGURE 5A

GROUNDWATER (GQS) EXCEEDANCE ZONE IN GROUNDWATER

APRIL 2013



NOTE: DNC DENOTES GROUNDWATER GAUGING DATA THAT IS NOT CONSISTENT AND SUBSEQUENTLY WAS NOT USED TO CREATE THE GROUNDWATER ELEVATION CONTOURS
* DENOTES PLUGGED AND ABANDONED WELLS ON SEPTEMBER 2013

LEGEND:

- SITE BOUNDARY
- GRAVEL
- FENCE
- BERM
- TREATMENT AREA
- SOIL BORING INSTALLED BY SWG (MAY 2013)
- MONITORING WELL INSTALLED BY SWG (MAY 2013)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2012/ JANUARY 2013)
- MONITORING WELL INSTALLED BY SWG (APRIL 2012)
- MONITORING WELL INSTALLED BY SWG (NOVEMBER 2010)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (AUGUST 2009)
- SOIL BORING/MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH/APRIL 2008)
- MONITORING WELL INSTALLED BY LT ENVIRONMENTAL (MARCH 2010)
- TEMPORARY SAMPLING WELL INSTALLED BY SWG (NOVEMBER 2010)
- GQS EXCEEDANCE ZONE
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Largo Compressor Station
SE1/4 of NE1/4, S15 T26N R7W
Rio Arriba Co., New Mexico
N36° 29' 12.63"; W107° 33' 27.79"

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Southwest GEOSCIENCE

FIGURE 5B

GROUNDWATER (GQS) EXCEEDANCE ZONE IN GROUNDWATER

OCTOBER 2013

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APPENDIX B

Tables

Southwest GEOSCIENCE

TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH (GRO) GRO (mg/L)	TPH (DRO) DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10	750	750	620	NE	NE
P-1	4.04.08	NA	5,700	2,200	310	5,500	53	<1.0
P-1	8.10.09	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
P-1	11.24.09	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
P-1	2.25.10	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-12 (P-1*)	4.05.10	NA	1,300	1,600	110	2,200	20	1.2
MW-12 (P-1*)	5.27.10	NA	3,300	1,800	180	3,200	NA	NA
MW-12 (P-1*)	7.13.10	NA	2,900	330	140	1,700	22	1.0
MW-12 (P-1*)	8.26.10	NA	1,200	420	70	1,300	13	<1.0
MW-12 (P-1*)	11.18.10	NA	1,100	69	61	720	6.3	<1.0
MW-12 (P-1*)	2.4.11	NA	5,900	<50	470	1,600	24	<1.0
MW-12 (P-1*)	4.19.11	NA	4,200	190	<100	330	14	<1.0
MW-12 (P-1*)	5.19.11	NA	1,000	520	36	660	13	15
MW-12 (P-1*)	7.28.11	NA	12,000	2,300	320	3,200	54	3.9
MW-12 (P-1*)	10.28.11	NA	4,900	59	130	3,300	29	7.3
MW-12 (P-1*)	1.31.12	NA	4,400	62	110	1,500	18	11
MW-12 (P-1*)	4.19.12	NA	4,300	53	150	930	22	5.8
MW-12 (P-1*)	7.31.12	NA	4,600	<50	160	920	17	3.3
MW-12 (P-1*)	10.19.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-12 (P-1*)	4.24.13	NA	6,900	150	96	850	23	5.8
P-2	4.04.08	NA	15,000	2,100	380	4,600	120	6.8
P-2	8.10.09	NA	9,800	110	170	1,400	NA	NA
P-2	11.24.09	NA	21,000	360	460	2,700	NA	NA
P-2	2.25.10	NA	19,000	380	380	2,800	NA	NA
MW-11 (P-2*)	4.05.10	NA	<1.0	<1.7	<1.0	3.3	0.22	<1.0
MW-11 (P-2*)	5.27.10	NA	4.4	<1.0	<1.0	<2.0	NA	NA
MW-11 (P-2*)	7.13.10	NA	700	4.5	11	56	3.6	1.2
MW-11 (P-2*)	8.26.10	NA	86	<1.0	1.3	4.9	0.4	<1.0
MW-11 (P-2*)	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	0.14	<1.0
MW-11 (P-2*)	2.4.11	NA	21	<1.0	<1.0	<1.0	0.075	<1.0
MW-11 (P-2*)	4.19.11	NA	96	12	1.2	27	0.39	<1.0
MW-11 (P-2*)	7.28.11	NA	46	<1.0	38	76	11	1.7
MW-11 (P-2*)	10.28.11	NA	1,600	<10	31	37	4.6	2.2
MW-11 (P-2*)	1.31.12	NA	470	<10	12	<20	1.3	<1.0
MW-11 (P-2*)	4.19.12	NA	84	<1.0	3.2	<2.0	0.43	<1.0
MW-11 (P-2*)	7.31.12	NA	36	<1.0	2.6	<2.0	0.24	<1.0
MW-11 (P-2*)	10.19.12	NA	1,100	<1.0	11	41	5.3	<1.0
MW-11 (P-2*)	4.24.13	NA	40	<1.0	1.5	<2.0	0.14	<1.0
P-3	4.04.08	NA	780	13	81	20	4.2	<1.0
P-3	8.10.09	NA	35	<1.0	3.8	<2.0	NA	NA
P-3	11.24.09	NA	1.4	<1.0	1.5	<2.0	NA	NA
P-3	2.25.10	NA	3.6	10	2	24	NA	NA
MW-3R (P-3*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-3R (P-3*)	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-3R (P-3*)	7.13.10	NA	13	<1.0	1.3	6.4	1.4	1
MW-3R (P-3*)	8.26.10	NA	5.0	<1.0	<1.0	2.3	0.46	<1.0
MW-3R (P-3*)	11.18.10	NA	3.9	<1.0	<1.0	<2.0	0.47	<1.0
MW-3R (P-3*)	2.1.11	NA	2.0	<1.0	<1.0	<2.0	0.16	<1.0
MW-3R (P-3*)	4.18.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-3R (P-3*)	7.28.11	NA	1.5	<1.0	<1.0	7.1	1.50	<1.0
MW-3R (P-3*)	10.27.11	NA	1.1	<1.0	<1.0	<2.0	0.57	<1.0
MW-3R (P-3*)	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	0.16	<1.0
MW-3R (P-3*)	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	0.16	<1.0
MW-3R (P-3*)	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	0.36	<1.0
MW-3R (P-3*)	10.19.12	NA	<1.0	<1.0	1.2	2.8	0.48	<1.0
MW-3R (P-3*)	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-3R (P-3*)	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

Southwest GEOSCIENCE

TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH (GRO) GRO (mg/L)	TPH (DRO) DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10	750	750	620	NE	NE
P-4	4.04.08	NA	<1.0	<1.0	<1.0	<2.0	0.42	<1.0
P-4	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
P-4	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
P-4	2.25.10	NA	2.5	7.5	<1.0	14	NA	NA
MW-14 (P-4*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-14 (P-4*)	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-14 (P-4*)	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-14 (P-4*)	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-14 (P-4*)	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-14 (P-4*)	2.1.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	10.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14 (P-4*)	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
P-5	4.04.08	NA	<1.0	<1.0	<1.0	<2.0	0.1	<1.0
P-5	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
P-5	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
P-5	2.25.10	NA	1.8	6.1	<1.0	11	NA	NA
MW-13 (P-5*)	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-13 (P-5*)	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-13 (P-5*)	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-13 (P-5*)	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-13 (P-5*)	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-13 (P-5*)	2.3.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	10.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13 (P-5*)	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-6	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-6	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-6	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-6	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-6	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-6	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-6	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-6	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	10.18.12	8,420	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-6	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

Southwest GEOSCIENCE

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Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH (GRO) GRO (mg/L)	TPH (DRO) DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10	750	750	620	NE	NE
MW-7	8.10.09	NA	15,000	<100	380	310	NA	NA
MW-7	11.24.09	NA	13,000	<100	150	<200	NA	NA
MW-7	2.25.10	NA	3,000	<10	40	31	NA	NA
MW-7	4.05.10	NA	940	<10	<10	<20	4.2	1.3
MW-7	5.27.10	NA	700	<10	11	<20	NA	NA
MW-7	7.13.10	NA	15,000	<10	130	25	51	4.6
MW-7	8.26.10	NA	5,300	<20	35	<40	18	1.7
MW-7	11.18.10	NA	3,700	<20	62	<40	11	1.2
MW-7	2.1.11	NA	1,800	<1.0	10	4.6	2.2	<1.0
MW-7	4.19.11	NA	250	<1.0	2.9	2.4	0.75	<1.0
MW-7	5.19.11	NA	1,400	<5.0	15.0	<10	4.0	<1.0
MW-7	7.28.11	NA	75	<5.0	200	62.0	45	2.7
MW-7	10.28.11	NA	1,300	<10	140	<20	32	6.1
MW-7	1.31.12	NA	9,000	<10	110	<20	21	4.5
MW-7	4.19.12	NA	790	<10	15	<20	2.7	<1.0
MW-7	7.31.12	NA	2,500	<10	35	<20	6.4	<1.0
MW-7	10.19.12	NA	8,200	<10	130	36.0	32	2.5
MW-7	4.24.13	NA	120	<1.0	2.1	<2.0	0.60	<1.0
MW-7	10.25.13	NA	45	<1.0	<1.0	<2.0	0.19	<1.0
MW-8	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-8	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-8	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-8	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-8	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-8	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-8	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-8	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-8	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	4.18.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	7.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	10.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-8	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-9	11.24.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-9	2.25.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-9	4.05.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-9	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-9	7.13.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-9	8.26.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-9	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-9	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	4.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	7.31.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	10.19.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	4.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-9	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

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TABLE 1
Largo Compressor Station
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH (GRO) GRO (mg/L)	TPH (DRO) DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10	750	750	620	NE	NE
MW-15	4.05.10	NA	1.1	<1.0	<1.0	<2.0	<0.05	<1.0
MW-15	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	<0.05	<1.0
MW-15	7.13.10	NA	490	2.2	7.2	15	3.2	<1.0
MW-15	8.26.10	NA	20	<1.0	<1.0	<2.0	0.095	<1.0
MW-15	11.18.10	NA	8.9	<1.0	<1.0	<2.0	0.19	<1.0
MW-15	2.1.11	NA	16	<1.0	<1.0	<2.0	0.06	<1.0
MW-15	4.18.11	NA	13	<1.0	<1.0	<2.0	0.14	<1.0
MW-15	7.28.11	NA	1500	<1.0	19	20	6.7	<1.0
MW-15	10.28.11	NA	810	<10	<10	<20	2.2	1.0
MW-15	1.30.12	NA	150	<10	<10	<20	0.51	<1.0
MW-15	4.18.12	NA	23	<1.0	1.4	<2.0	0.21	<1.0
MW-15	7.31.12	NA	64	<1.0	1.1	<2.0	0.22	<1.0
MW-15	10.19.12	NA	400	<1.0	7.2	7.8	2.0	<1.0
MW-15	4.24.13	NA	6.4	<1.0	<1.0	<2.0	0.094	<1.0
MW-15	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-16	4.05.10	NA	3.8	1.5	1.4	11	0.36	<1.0
MW-16	5.27.10	NA	<1.0	<1.0	<1.0	<2.0	NA	NA
MW-16	7.13.10	NA	47	<1.0	<1.0	<2.0	0.3	<1.0
MW-16	8.26.10	NA	16	<1.0	<1.0	<2.0	0.095	<1.0
MW-16	11.18.10	NA	3.4	<1.0	<1.0	<2.0	0.11	<1.0
MW-16	2.1.11	NA	61	<1.0	1.3	2.1	0.20	<1.0
MW-16	4.18.11	NA	34	<1.0	3.7	4.4	0.16	<1.0
MW-16	7.28.11	NA	43	<1.0	1.9	<2.0	0.29	<1.0
MW-16	10.27.11	NA	21	<1.0	<1.0	<2.0	0.19	<1.0
MW-16	1.30.12	NA	10	<1.0	<1.0	<2.0	0.096	<1.0
MW-16	4.18.12	NA	20	<1.0	1.0	<2.0	0.14	<1.0
MW-16	7.31.12	NA	46	<1.0	1.9	<2.0	0.23	<1.0
MW-16	10.19.12	NA	100	<1.0	3.9	<2.0	0.38	<1.0
MW-16	4.24.13	NA	10	<1.0	<1.0	<2.0	0.097	<1.0
MW-16	10.28.13	NA	11	<1.0	1.2	<2.0	0.052	<1.0
TSW-31	11.23.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	10.16.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-32	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-33	1.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	4.20.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	7.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	4.18.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	7.30.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	10.19.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-33	4.23.13	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-34	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	10.16.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-34	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

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Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH (GRO) GRO (mg/L)	TPH (DRO) DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10	750	750	620	NE	NE
MW-35	1.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	4.20.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	7.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	4.18.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	7.30.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	10.19.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-35	4.23.13	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-36	1.31.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-36	4.20.11	NA	<1.0	2.1	<1.0	<2.0	<0.050	<1.0
MW-36	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-36	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-36	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-36	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-36	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-36	10.17.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-36	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-36	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-37	2.4.11	NA	3,100	6,200	700	7,000	38	3.9
MW-37	4.20.11	NA	2,500	3,600	500	5,100	34	4.2
MW-37	7.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-37	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-37	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-37	4.18.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-37	7.30.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-37	10.19.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPL
MW-37	4.23.13	NA	670	260	230	1,100	13	4.1
MW-37	10.29.13	NA	580	170	150	610	10	7.7
MW-38	1.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	4.20.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	10.17.12	3,000	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-38	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-39	1.26.11	NA	1,200	730	37	570	11	<1.0
MW-39	4.19.11	NA	120	<1.0	1.6	5.9	0.33	<1.0
MW-39	7.29.11	NA	27	14	1.9	18	0.80	<1.0
MW-39	10.27.11	NA	260	<1.0	1.2	3.5	0.44	<1.0
MW-39	1.27.12	NA	580	48	4.3	79	1.8	<1.0
MW-39	4.18.12	NA	1,500	620	36	860	12	112
MW-39	7.30.12	NA	170	<2.0	<2.0	8.6	0.58	<1.0
MW-39	10.17.12	NA	13	<2.0	<2.0	<4.0	<0.10	<1.0
MW-39	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-39	10.23.13	NA	18	<1.0	<1.0	<2.0	0.11	<1.0
MW-40	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-40	4.20.11	NA	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
MW-40	7.28.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-40	10.26.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-40	1.27.12	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-40R	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-40R	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-40R	10.16.12	7,930	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-40R	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-40R	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

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TABLE 1
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Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH (GRO) GRO (mg/L)	TPH (DRO) DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10	750	750	620	NE	NE
MW-41	1.31.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
MW-41	4.18.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
MW-41	7.29.11	NA	<5.0	<5.0	<5.0	<10	<0.050	<1.0
MW-41	10.27.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-41	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-41	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-41	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-41	10.16.12	30,200	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-41	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-41	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-42	2.4.11	NA	<5.0	<5.0	<5.0	<10	<0.25	NA
MW-42	3.3.11	75,400	NA	NA	NA	NA	NA	NA
MW-42	4.19.11	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
MW-42	7.28.11	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-42	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-42	1.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-42	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-42	7.30.12	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-42	10.16.12	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-42	4.23.13	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-42	10.23.13	NA	Dry	Dry	Dry	Dry	Dry	Dry
MW-43	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	0.06	<1.0
MW-43	4.19.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-43	7.29.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-43	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-43	1.27.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-43	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-43	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-43	10.16.12	7,630	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-43	4.23.13	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
MW-43	10.24.13	NA	<5.0	<5.0	<5.0	<10	<0.25	<1.0
TSW-44	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
TSW-45	11.18.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
TSW-46	11.23.10	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-47	1.28.11	NA	<5.0	<5.0	<5.0	<10	1.3	2.5
MW-47	4.18.11	NA	<5.0	<5.0	<5.0	<10	2.0	1.2
MW-47	7.28.11	NA	<5.0	<5.0	<5.0	27.0	6.6	1.1
MW-47	10.28.11	NA	<5.0	<5.0	<5.0	<10	1.4	2.7
MW-47	1.30.12	NA	<5.0	<5.0	<5.0	<10	2.6	2.5
MW-47	4.18.12	NA	11	<5.0	16	38	5.5	2.9
MW-47	7.31.12	NA	<10	<10	<10	<20	4.5	2.9
MW-47	10.18.12	NA	<5.0	<5.0	<5.0	91	12	1.8
MW-47	4.24.13	NA	<5.0	<5.0	5.0	<10	6.4	2.3
MW-47	10.24.13	NA	190	<5.0	8.9	<10	9.1	4.7
MW-48	4.18.12	NA	290	3,200	360	5,000	25	1.3
MW-48	7.30.12	NA	120	1,100	160	2,900	15	<1.0
MW-48	10.17.12	NA	190	580	150	1,700	8.5	<1.0
MW-48	4.23.13	NA	140	<5.0	170	310	2.9	<1.0
MW-48	10.29.13	NA	67	<5.0	51	83	0.87	<1.0
MW-49	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-49	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-49	10.17.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-49	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-49	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-50	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-50	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-50	10.17.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-50	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-50	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

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Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH (GRO) GRO (mg/L)	TPH (DRO) DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		NE	10	750	750	620	NE	NE
MW-51	4.18.12	NA	**1,200**	**3,600**	150	**1,400**	19	<1.0
MW-51	7.30.12	NA	**51**	5.5	17	78	1.3	<1.0
MW-51	10.16.12	NA	**14**	<1.0	4.8	21	0.16	<1.0
MW-51	4.23.13	NA	3.0	<1.0	1.5	<2.0	0.078	<1.0
MW-51	10.23.13	NA	8.2	<1.0	<1.0	<2.0	0.066	<1.0
MW-52	4.18.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-52	7.30.12	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-52	10.17.12	27,000	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-52	4.23.13	NA	**30**	<1.0	<1.0	<2.0	0.11	<1.0
MW-52	10.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-53	01.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-53	05.03.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-53	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-54	01.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-54	05.03.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-54	10.24.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-55	01.29.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-55	05.03.13	NA	<1.0	<1.0	13	**710**	1.3	<1.0
MW-55	10.29.13	NA	<1.0	<1.0	1.4	<2.0	<0.050	<1.0
MW-75	01.29.13	NA	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
MW-75	4.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-75	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-76	6.3.13	14,200	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-76	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-77	6.3.13	17,900	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-77	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-79	6.3.13	dry	dry	dry	dry	dry	dry	dry
MW-79	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-80	6.3.13	13,000	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-80	10.23.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-83	6.3.13	14,500	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-83	10.25.13	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

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

NA = Not Analyzed

NE = Not Established

NAPL = Non-aqueous phase liquid

* = piezometer well was replaced with associated monitoring well

Southwest GEOSCIENCE

TABLE 2
Largo Compressor Station
Groundwater Elevations

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-3R	4.5.10	6117.48	None Observed	21.83	0.0	6095.65
	5.27.10		None Observed	21.82	0.0	6095.66
	6.25.10		None Observed	22.22	0.0	6095.26
	7.13.10		None Observed	22.47	0.0	6095.01
	8.26.10		None Observed	22.24	0.0	6095.24
	11.18.10		None Observed	22.32	0.0	6095.16
	1.25.11		None Observed	22.13	0.0	6095.35
	4.22.11		None Observed	21.99	0.0	6095.49
	7.27.11		None Observed	22.81	0.0	6094.67
	10.26.11		None Observed	22.91	0.0	6094.57
	1.26.12		None Observed	22.74	0.0	6094.74
	4.19.12		None Observed	22.61	0.0	6094.87
	7.31.12		None Observed	22.66	0.0	6094.82
	10.18.12		None Observed	23.04	0.0	6094.44
	4.24.13		None Observed	22.50	0.0	6094.98
	10.23.13		None Observed	21.12	0.0	6096.36
MW-6	8.10.09	6115.47	None Observed	20.28	0.0	6095.19
	11.24.09		None Observed	20.17	0.0	6095.30
	2.25.10		None Observed	19.54	0.0	6095.93
	4.5.10		None Observed	19.11	0.0	6096.36
	5.27.10		None Observed	19.28	0.0	6096.19
	6.25.10		None Observed	19.87	0.0	6095.60
	7.13.10		None Observed	20.09	0.0	6095.38
	8.26.10		None Observed	19.68	0.0	6095.79
	11.18.10		None Observed	19.72	0.0	6095.75
	1.25.11		None Observed	19.51	0.0	6095.96
	4.22.11		None Observed	19.42	0.0	6096.05
	7.27.11		None Observed	20.40	0.0	6095.07
	10.26.11		None Observed	20.43	0.0	6095.04
	1.26.12		None Observed	20.15	0.0	6095.32
	4.19.12		None Observed	Not Gauged	0.0	Not Gauged
	7.31.12		None Observed	19.93	0.0	6095.54
	10.18.12		None Observed	20.47	0.0	6095.00
	4.24.13		None Observed	19.89	0.0	6095.58
	10.23.13		None Observed	19.42	0.0	6096.05
MW-7	8.10.09	6116.65	None Observed	21.52	0.0	6095.13
	11.24.09		None Observed	21.73	0.0	6094.92
	2.25.10		None Observed	21.42	0.0	6095.23
	4.5.10		None Observed	20.96	0.0	6095.69
	5.27.10		None Observed	20.96	0.0	6095.69
	6.25.10		None Observed	21.32	0.0	6095.33
	7.13.10		None Observed	21.46	0.0	6095.19
	8.26.10		None Observed	21.36	0.0	6095.29
	11.18.10		None Observed	21.42	0.0	6095.23
	1.25.11		None Observed	21.24	0.0	6095.41
	4.22.11		None Observed	21.22	0.0	6095.43
	7.27.11		None Observed	21.80	0.0	6094.85
	10.26.11		None Observed	21.94	0.0	6094.71
	1.26.12		None Observed	21.82	0.0	6094.83
	4.19.12		None Observed	21.70	0.0	6094.95
	7.31.12		None Observed	21.88	0.0	6094.77
	10.18.12		None Observed	22.12	0.0	6094.53
	4.24.13		None Observed	21.65	0.0	6095.00
	10.23.13		None Observed	21.43	0.0	6095.22

TABLE 2
Largo Compressor Station
Groundwater Elevations

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-8	8.10.09	6118.28	None Observed	23.17	0.0	6095.11
	11.24.09		None Observed	23.43	0.0	6094.85
	2.25.10		None Observed	23.25	0.0	6095.03
	4.5.10		None Observed	22.97	0.0	6095.31
	5.27.10		None Observed	22.85	0.0	6095.43
	6.25.10		None Observed	23.01	0.0	6095.27
	7.13.10		None Observed	23.21	0.0	6095.07
	8.26.10		None Observed	23.23	0.0	6095.05
	11.18.10		None Observed	23.30	0.0	6094.98
	1.25.11		None Observed	23.10	0.0	6095.18
	4.22.11		None Observed	22.94	0.0	6095.34
	7.27.11		None Observed	23.56	0.0	6094.72
	10.26.11		None Observed	23.75	0.0	6094.53
	1.26.12		None Observed	23.64	0.0	6094.64
	4.19.12		None Observed	23.54	0.0	6094.74
	7.31.12		None Observed	23.19	0.0	6095.09
	10.18.12		None Observed	23.96	0.0	6094.32
	4.24.13		None Observed	23.54	0.0	6094.74
	10.23.13		None Observed	23.38	0.0	6094.90
MW-9	8.10.09	6117.83	None Observed	21.95	0.0	6095.88
	11.24.09		None Observed	21.98	0.0	6095.85
	2.25.10		None Observed	21.51	0.0	6096.32
	4.5.10		None Observed	21.00	0.0	6096.83
	5.27.10		None Observed	21.10	0.0	6096.73
	6.25.10		None Observed	21.56	0.0	6096.27
	7.13.10		None Observed	21.77	0.0	6096.06
	8.26.10		None Observed	21.58	0.0	6096.25
	11.18.10		None Observed	21.61	0.0	6096.22
	1.25.11		None Observed	21.43	0.0	6096.40
	4.22.11		None Observed	21.30	0.0	6096.53
	7.27.11		None Observed	22.15	0.0	6095.68
	10.26.11		None Observed	22.25	0.0	6095.58
	1.26.12		None Observed	22.04	0.0	6095.79
	4.19.12		None Observed	21.88	0.0	6095.95
	7.31.12		None Observed	21.98	0.0	6095.85
	10.18.12		None Observed	22.37	0.0	6095.46
	4.24.13		None Observed	21.79	0.0	6096.04
	10.23.13		None Observed	21.39	0.0	6096.44
MW-11	4.5.10	6116.65	None Observed	20.57	0.0	6096.08
	5.27.10		None Observed	20.75	0.0	6095.90
	6.25.10		None Observed	21.33	0.0	6095.32
	7.13.10		None Observed	21.54	0.0	6095.11
	8.26.10		None Observed	21.17	0.0	6095.48
	11.18.10		None Observed	21.16	0.0	6095.49
	1.25.11		None Observed	21.02	0.0	6095.63
	4.22.11		None Observed	20.91	0.0	6095.74
	7.27.11		None Observed	21.89	0.0	6094.76
	10.26.11		None Observed	21.94	0.0	6094.71
	1.26.12		None Observed	21.64	0.0	6095.01
	4.19.12		None Observed	21.49	0.0	6095.16
	7.31.12		None Observed	21.49	0.0	6095.16
	10.18.12		None Observed	21.98	0.0	6094.67
	4.24.13		None Observed	21.40	0.0	6095.25
	9.6.13		Monitoring well was removed during remediation			

TABLE 2
Largo Compressor Station
Groundwater Elevations

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-12	4.5.10	6111.24	None Observed	14.88	0.0	6096.36
	5.27.10		None Observed	15.11	0.0	6096.13
	6.25.10		None Observed	15.67	0.0	6095.57
	7.13.10		None Observed	15.91	0.0	6095.33
	8.26.10		None Observed	15.55	0.0	6095.69
	11.18.10		None Observed	16.58	0.0	6094.66
	1.25.11		None Observed	15.73	0.0	6095.51
	4.22.11		None Observed	15.30	0.0	6095.94
	7.27.11		None Observed	16.10	0.0	6095.14
	10.26.11		None Observed	16.21	0.0	6095.03
	1.26.12		None Observed	15.99	0.0	6095.25
	4.19.12		None Observed	15.83	0.0	6095.41
	7.31.12		None Observed	15.83	0.0	6095.41
	10.18.12		16.30	16.31	0.01	6094.94
	4.24.13		None Observed	15.68	0.00	6095.56
	9.6.13		Monitoring well was removed during remediation			
MW-13	4.5.10	6115.46	None Observed	19.26	0.0	6096.20
	5.27.10		None Observed	19.47	0.0	6095.99
	6.25.10		None Observed	20.07	0.0	6095.39
	7.13.10		None Observed	20.28	0.0	6095.18
	8.26.10		None Observed	19.86	0.0	6095.60
	11.18.10		None Observed	19.91	0.0	6095.55
	1.25.11		None Observed	19.71	0.0	6095.75
	4.22.11		None Observed	19.65	0.0	6095.81
	7.27.11		None Observed	20.59	0.0	6094.87
	10.26.11		None Observed	20.62	0.0	6094.84
	1.26.12		None Observed	20.34	0.0	6095.12
	4.19.12		None Observed	20.19	0.0	6095.27
	7.31.12		None Observed	20.15	0.0	6095.31
	10.18.12		None Observed	20.67	0.0	6094.79
	4.24.13		None Observed	20.10	0.0	6095.36
	10.23.13		None Observed	19.64	0.0	6095.82
MW-14	4.5.10	6115.99	None Observed	20.09	0.0	6095.90
	5.27.10		None Observed	20.28	0.0	6095.71
	6.25.10		None Observed	20.94	0.0	6095.05
	7.13.10		None Observed	21.19	0.0	6094.80
	8.26.10		None Observed	20.70	0.0	6095.29
	11.18.10		None Observed	20.73	0.0	6095.26
	1.25.11		None Observed	20.52	0.0	6095.47
	4.22.11		None Observed	20.45	0.0	6095.54
	7.27.11		None Observed	21.47	0.0	6094.52
	10.26.11		None Observed	21.48	0.0	6094.51
	1.26.12		None Observed	21.15	0.0	6094.84
	4.19.12		None Observed	21.00	0.0	6094.99
	7.31.12		None Observed	21.00	0.0	6094.99
	10.18.12		None Observed	21.50	0.0	6094.49
	4.24.13		None Observed	20.91	0.0	6095.08
	10.23.13		None Observed	20.43	0.0	6095.56
MW-15	4.5.10	6116.49	None Observed	20.66	0.0	6095.83
	5.27.10		None Observed	20.82	0.0	6095.67
	6.25.10		None Observed	21.43	0.0	6095.06
	7.13.10		None Observed	21.64	0.0	6094.85
	8.26.10		None Observed	21.25	0.0	6095.24
	11.18.10		None Observed	21.36	0.0	6095.13
	1.25.11		None Observed	21.07	0.0	6095.42
	4.22.11		None Observed	20.95	0.0	6095.54
	7.27.11		None Observed	21.95	0.0	6094.54
	10.26.11		None Observed	21.98	0.0	6094.51
	1.26.12		None Observed	21.70	0.0	6094.79
	4.19.12		None Observed	21.56	0.0	6094.93
	7.31.12		None Observed	Errant Gauge	0.0	Errant Gauge
	10.18.12		None Observed	22.05	0.0	6094.44
	4.24.13		None Observed	21.50	0.0	6094.99
	10.23.13		None Observed	20.98	0.0	6095.51

TABLE 2
Largo Compressor Station
Groundwater Elevations

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-16	4.5.10	6117.57	None Observed	21.51	0.0	6096.06
	5.27.10		None Observed	51.59	0.0	6065.98
	6.25.10		None Observed	22.10	0.0	6095.47
	7.13.10		None Observed	22.29	0.0	6095.28
	8.26.10		None Observed	22.05	0.0	6095.52
	11.18.10		None Observed	22.11	0.0	6095.46
	1.25.11		None Observed	21.87	0.0	6095.70
	4.22.11		None Observed	21.76	0.0	6095.81
	7.27.11		None Observed	22.66	0.0	6094.91
	10.26.11		None Observed	22.71	0.0	6094.86
	1.26.12		None Observed	22.50	0.0	6095.07
	4.19.12		None Observed	22.38	0.0	6095.19
	7.31.12		None Observed	Errant Gauge	0.0	Errant Gauge
	10.18.12		None Observed	22.82	0.0	6094.75
	4.24.13		None Observed	22.28	0.0	6095.29
	10.23.13		None Observed	21.81	0.0	6095.76
MW-32	1.25.11	6110.22	None Observed	12.67	0.0	6097.55
	4.22.11		None Observed	12.49	0.0	6097.73
	7.27.11		None Observed	13.47	0.0	6096.75
	10.26.11		None Observed	13.56	0.0	6096.66
	1.26.12		None Observed	13.23	0.0	6096.99
	4.18.12		None Observed	13.05	0.0	6097.17
	7.30.12		None Observed	14.10	0.0	6096.12
	10.18.12		None Observed	13.59	0.0	6096.63
	4.23.13		None Observed	13.00	0.0	6097.22
	10.23.13		None Observed	12.64	0.0	6097.58
MW-33	1.25.11*	6114.02	16.08	16.44	0.36	6097.83
	4.22.11		16.59	16.60	0.01	6097.43
	7.27.11		16.07	16.72	0.65	6097.75
	10.26.11		15.55	16.15	0.60	6098.28
	1.26.12		15.83	15.84	0.01	6098.19
	4.18.12		Not Gauged			Not Gauged
	8.31.12		15.4	17.29	1.89	6098.03
	10.18.12		14.39	17.51	3.12	6098.66
	4.23.13		12.31	12.35	0.04	6101.70
	10.23.13		10.92	14.08	3.16	6102.12
MW-34	1.25.11	6115.3	None Observed	17.38	0.0	6097.92
	4.22.11		None Observed	17.20	0.0	6098.10
	7.27.11		None Observed	18.23	0.0	6097.07
	10.26.11		None Observed	18.32	0.0	6096.98
	1.26.12		None Observed	17.98	0.0	6097.32
	4.18.12		None Observed	17.78	0.0	6097.52
	7.30.12		None Observed	17.80	0.0	6097.50
	10.18.12		None Observed	18.32	0.0	6096.98
	4.23.13		None Observed	17.70	0.0	6097.60
	10.23.13		None Observed	16.32	0.0	6098.98
MW-35	1.25.11*	6112.22	14.5	14.75	0.25	6097.64
	4.22.11		14.22	14.80	0.58	6097.82
	7.27.11		15.11	16.36	1.25	6096.72
	10.26.11		15.14	16.64	1.50	6096.62
	1.26.12		14.72	14.73	0.01	6097.50
	4.18.12		Not Gauged			Not Gauged
	8.31.12		14.43	17.49	3.06	6096.84
	10.18.12		14.65	17.84	3.19	6096.58
	4.23.13		10.98	13.05	2.07	6100.60
	10.23.13		9.26	12.58	3.72	6102.21
MW-36	1.25.11	6111.48	None Observed	13.80	0.0	6097.68
	4.22.11		None Observed	13.65	0.0	6097.83
	7.27.11		None Observed	14.69	0.0	6096.79
	10.26.11		None Observed	14.45	0.0	6097.03
	1.26.12		None Observed	14.41	0.0	6097.07
	4.18.12		None Observed	14.18	0.0	6097.30
	7.30.12		None Observed	14.10	0.0	6097.38
	10.18.12		None Observed	14.76	0.0	6096.72
	4.23.13		None Observed	14.11	0.0	6097.37
	10.23.13		None Observed	13.75	0.0	6097.73

TABLE 2
Largo Compressor Station
Groundwater Elevations

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-37	1.25.11	6110.73	sheen	12.91	sheen	6097.88
	4.22.11		None Observed	12.78	0.0	6097.95
	7.27.11		13.81	13.84	0.03	6096.91
	10.26.11		13.88	13.92	0.04	6096.84
	1.26.12		13.54	13.54	0.01	6097.20
	4.18.12		Not Gauged			Not Gauged
	7.30.12		sheen	13.15	sheen	6097.64
	10.18.12		13.89	13.90	0.01	6096.84
	4.23.13		None Observed	13.23	0.0	6097.50
	10.23.13		None Observed	12.84	0.0	6097.89
MW-38	1.25.11	6110.43	None Observed	12.06	0.0	6098.37
	4.22.11		None Observed	11.87	0.0	6098.56
	7.27.11		None Observed	13.01	0.0	6097.42
	10.26.11		None Observed	13.10	0.0	6097.33
	1.26.12		None Observed	12.68	0.0	6097.75
	4.18.12		None Observed	12.11	0.0	6098.32
	7.30.12		None Observed	12.24	0.0	6098.19
	10.18.12		None Observed	13.01	0.0	6097.42
	4.23.13		None Observed	12.34	0.0	6098.09
	10.23.13		None Observed	11.92	0.0	6098.51
MW-39	1.25.11	6113.70	None Observed	16.21	0.0	6097.49
	4.22.11		None Observed	17.35	0.0	6096.35
	7.27.11		None Observed	16.43	0.0	6097.27
	10.26.11		None Observed	16.52	0.0	6097.18
	1.26.12		None Observed	16.57	0.0	6097.13
	4.18.12		None Observed	16.61	0.0	6097.09
	7.30.12		None Observed	16.69	0.0	6097.01
	10.18.12		None Observed	16.77	0.0	6096.93
	4.23.13		None Observed	16.65	0.0	6097.05
	10.23.13		None Observed	16.25	0.0	6097.45
MW-40	1.25.11	6115.69	None Observed	19.16	0.0	6096.53
	4.22.11		None Observed	dry	0.0	dry
	7.27.11		None Observed	dry	0.0	dry
	10.26.11		None Observed	dry	0.0	dry
	1.26.12		None Observed	dry	0.0	dry
MW-40R	4.18.12	6115.61	None Observed	19.58	0.0	6096.03
	7.30.12		None Observed	19.69	0.0	6095.92
	10.18.12		None Observed	19.96	0.0	6095.65
	4.23.13		None Observed	19.47	0.0	6096.14
	10.23.13		None Observed	19.12	0.0	6096.49
MW-41	1.25.11	6112.07	None Observed	14.14	0.0	6097.93
	4.22.11		None Observed	14.18	0.0	6097.89
	7.27.11		None Observed	14.08	0.0	6097.99
	10.26.11		None Observed	14.97	0.0	6097.10
	1.26.12		None Observed	14.20	0.0	6097.87
	4.18.12		None Observed	14.27	0.0	6097.80
	7.30.12		None Observed	14.21	0.0	6097.86
	10.18.12		None Observed	14.18	0.0	6097.89
	4.23.13		None Observed	14.39	0.0	6097.68
	10.23.13		None Observed	14.23	0.0	6097.84
MW-42	1.25.11	6121.53	None Observed	24.88	0.0	6096.65
	4.22.11**		None Observed	Errant Gauge	0.0	Errant Gauge
	7.27.11		None Observed	dry	0.0	dry
	10.26.11		None Observed	25.16	0.0	6096.37
	1.26.12		None Observed	24.92	0.0	6096.61
	4.18.12		Not Gauged			Not Gauged
	7.30.12		dry	dry	dry	dry
	10.18.12		dry	dry	dry	dry
	4.23.13		dry	dry	dry	dry
	10.23.13		dry	dry	dry	dry

TABLE 2
Largo Compressor Station
Groundwater Elevations

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation[1]
MW-43	1.25.11	6112.92	None Observed	15.41	0.0	6097.51
	4.22.11		None Observed	15.30	0.0	6097.62
	7.27.11		None Observed	16.27	0.0	6096.65
	10.26.11		None Observed	16.35	0.0	6096.57
	1.26.12		None Observed	16.05	0.0	6096.87
	4.18.12		None Observed	15.87	0.0	6097.05
	7.30.12		None Observed	15.82	0.0	6097.10
	10.18.12		None Observed	16.35	0.0	6096.57
	4.23.13		None Observed	15.79	0.0	6097.13
	10.23.13		None Observed	15.33	0.0	6097.59
MW-47	1.25.11	6114.41	None Observed	19.22	0.0	6095.19
	4.22.11		None Observed	19.02	0.0	6095.39
	7.27.11		None Observed	19.69	0.0	6094.72
	10.26.11		None Observed	19.86	0.0	6094.55
	1.26.12		None Observed	19.79	0.0	6094.62
	4.19.12		None Observed	19.67	0.0	6094.74
	7.31.12		None Observed	19.87	0.0	6094.54
	10.18.12		None Observed	20.08	0.0	6094.33
	4.24.13		None Observed	19.65	0.0	6094.76
	10.23.13		None Observed	19.38	0.0	6095.03
MW-48	4.18.12	6109.21	Not Gauged			Not Gauged
	7.30.12		None Observed	11.90	0.0	6097.31
	10.18.12		None Observed	12.26	0.0	6096.95
	4.23.13		None Observed	11.60	0.0	6097.61
	10.23.13		None Observed	11.18	0.0	6098.03
MW-49	4.18.12	6109.54	None Observed	12.38	0.0	6097.16
	7.30.12		None Observed	12.22	0.0	6097.32
	10.18.12		None Observed	12.92	0.0	6096.62
	4.23.13**		None Observed	Errant Gauge	0.0	Errant Gauge
	10.23.13		None Observed	11.87	0.0	6097.67
MW-50	4.18.12	6120.62	None Observed	24.64	0.0	6095.98
	7.30.12		None Observed	24.93	0.0	6095.69
	10.18.12		None Observed	25.11	0.0	6095.51
	4.23.13		None Observed	24.57	0.0	6096.05
	10.23.13		None Observed	24.21	0.0	6096.41
MW-51	4.18.12	6113.50	None Observed	18.33	0.0	6095.17
	7.30.12		None Observed	17.47	0.0	6096.03
	10.18.12		None Observed	17.81	0.0	6095.69
	04.23.13		None Observed	17.35	0.0	6096.15
	10.23.13		None Observed	16.84	0.0	6096.66
MW-52	4.18.12	6118.98	None Observed	21.11	0.0	6097.87
	7.30.12		None Observed	21.10	0.0	6097.88
	10.18.12		None Observed	21.08	0.0	6097.90
	4.23.13		None Observed	21.25	0.0	6097.73
	10.23.13		None Observed	21.02	0.0	6097.96
MW-53	5.3.13	6109.41	None Observed	12.16	0.0	6097.25
	10.23.13		None Observed	11.72	0.0	6097.69
MW-54	5.3.13	6107.62	None Observed	10.29	0.0	6097.33
	10.23.13		None Observed	9.82	0.0	6097.80
MW-55	5.3.13	6107.53	None Observed	9.82	0.0	6097.71
	10.23.13		None Observed	9.45	0.0	6098.08
MW-75	4.23.13	6116.28	None Observed	18.98	0.0	6097.30
	10.23.13		None Observed	18.67	0.0	6097.61
MW-76	10.23.13	6123.36	None Observed	25.33	0.0	6098.03
MW-77	10.23.13	6130.97	None Observed	33.13	0.0	6097.84
MW-79	10.23.13	6127.81	None Observed	30.46	0.0	6097.35
MW-80	10.23.13	6124.39	None Observed	26.58	0.0	6097.81
MW-83	10.23.13	6116.86	None Observed	18.91	0.0	6097.95

* - Regauged 1.31.11 to confirm product thickness

** - Aberrant gauging data

1 - On 11/02/2012, this table was adjusted to reflect July 2012 re-survey and a specific gravity of 0.69 for LNAPL

Southwest GEOSCIENCE

APPENDIX C

Laboratory Data Reports & Chain of Custody Documentation

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

May 08, 2013

Kyle Summers

Southwest Geoscience
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX: (214) 350-2914

RE: Largo CS

OrderNo.: 1304B01

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 27 sample(s) on 4/26/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1304B01**
Date Reported: **5/8/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-001 **Matrix:** AQUEOUS

Client Sample ID: MW-40R
Collection Date: 4/23/2013 8:30:00 AM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/1/2013 6:53:23 PM
Surr: DNOP	113	75.4-146		%REC	1	5/1/2013 6:53:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/1/2013 11:19:16 PM
Surr: BFB	91.1	51.9-148		%REC	1	5/1/2013 11:19:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/1/2013 11:19:16 PM
Toluene	ND	1.0		µg/L	1	5/1/2013 11:19:16 PM
Ethylbenzene	ND	1.0		µg/L	1	5/1/2013 11:19:16 PM
Xylenes, Total	ND	2.0		µg/L	1	5/1/2013 11:19:16 PM
Surr: 4-Bromofluorobenzene	101	69.4-129		%REC	1	5/1/2013 11:19:16 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-002 **Matrix:** AQUEOUS

Client Sample ID: MW-50
Collection Date: 4/23/2013 9:05:00 AM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/1/2013 7:21:09 PM
Surr: DNOP	126	75.4-146		%REC	1	5/1/2013 7:21:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/2/2013 12:45:04 AM
Surr: BFB	91.3	51.9-148		%REC	1	5/2/2013 12:45:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/2/2013 12:45:04 AM
Toluene	ND	1.0		µg/L	1	5/2/2013 12:45:04 AM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 12:45:04 AM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 12:45:04 AM
Surr: 4-Bromofluorobenzene	102	69.4-129		%REC	1	5/2/2013 12:45:04 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH greater than 2
RL	Reporting Detection Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-51
Project: Largo CS
Collection Date: 4/23/2013 10:20:00 AM
Lab ID: 1304B01-003
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/1/2013 7:48:56 PM
Surr: DNOP	129	75.4-146		%REC	1	5/1/2013 7:48:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.078	0.050		mg/L	1	5/2/2013 1:13:41 AM
Surr: BFB	97.7	51.9-148		%REC	1	5/2/2013 1:13:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	3.0	1.0		µg/L	1	5/2/2013 1:13:41 AM
Toluene	ND	1.0		µg/L	1	5/2/2013 1:13:41 AM
Ethylbenzene	1.5	1.0		µg/L	1	5/2/2013 1:13:41 AM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 1:13:41 AM
Surr: 4-Bromofluorobenzene	107	69.4-129		%REC	1	5/2/2013 1:13:41 AM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-41
Project: Largo CS
Collection Date: 4/23/2013 10:50:00 AM
Lab ID: 1304B01-004
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/1/2013 8:16:27 PM
Surr: DNOP	120	75.4-146		%REC	1	5/1/2013 8:16:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/2/2013 1:42:12 AM
Surr: BFB	92.9	51.9-148		%REC	1	5/2/2013 1:42:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/2/2013 1:42:12 AM
Toluene	ND	1.0		µg/L	1	5/2/2013 1:42:12 AM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 1:42:12 AM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 1:42:12 AM
Surr: 4-Bromofluorobenzene	105	69.4-129		%REC	1	5/2/2013 1:42:12 AM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-005 **Matrix:** AQUEOUS

Client Sample ID: MW-43
Collection Date: 4/23/2013 12:10:00 PM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/1/2013 8:44:01 PM
Surr: DNOP	106	75.4-146		%REC	1	5/1/2013 8:44:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.25		mg/L	5	5/2/2013 2:10:47 AM
Surr: BFB	91.9	51.9-148		%REC	5	5/2/2013 2:10:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	5.0		µg/L	5	5/2/2013 2:10:47 AM
Toluene	ND	5.0		µg/L	5	5/2/2013 2:10:47 AM
Ethylbenzene	ND	5.0		µg/L	5	5/2/2013 2:10:47 AM
Xylenes, Total	ND	10		µg/L	5	5/2/2013 2:10:47 AM
Surr: 4-Bromofluorobenzene	102	69.4-129		%REC	5	5/2/2013 2:10:47 AM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-006 **Matrix:** AQUEOUS

Client Sample ID: MW-32
Collection Date: 4/23/2013 1:20:00 PM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/1/2013 9:11:20 PM
Surr: DNOP	134	75.4-146		%REC	1	5/1/2013 9:11:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/2/2013 2:39:29 AM
Surr: BFB	90.2	51.9-148		%REC	1	5/2/2013 2:39:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/2/2013 2:39:29 AM
Toluene	ND	1.0		µg/L	1	5/2/2013 2:39:29 AM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 2:39:29 AM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 2:39:29 AM
Surr: 4-Bromofluorobenzene	99.5	69.4-129		%REC	1	5/2/2013 2:39:29 AM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-75
Project: Largo CS
Collection Date: 4/23/2013 12:50:00 PM
Lab ID: 1304B01-007
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/1/2013 9:38:51 PM
Surr: DNOP	133	75.4-146		%REC	1	5/1/2013 9:38:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/1/2013 3:08:38 PM
Surr: BFB	92.5	51.9-148		%REC	1	5/1/2013 3:08:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/1/2013 3:08:38 PM
Toluene	ND	1.0		µg/L	1	5/1/2013 3:08:38 PM
Ethylbenzene	ND	1.0		µg/L	1	5/1/2013 3:08:38 PM
Xylenes, Total	ND	2.0		µg/L	1	5/1/2013 3:08:38 PM
Surr: 4-Bromofluorobenzene	97.1	69.4-129		%REC	1	5/1/2013 3:08:38 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-34
Project: Largo CS
Collection Date: 4/23/2013 1:50:00 PM
Lab ID: 1304B01-008
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/1/2013 10:06:23 PM
Surr: DNOP	117	75.4-146		%REC	1	5/1/2013 10:06:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/1/2013 4:39:27 PM
Surr: BFB	92.4	51.9-148		%REC	1	5/1/2013 4:39:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/1/2013 4:39:27 PM
Toluene	ND	1.0		µg/L	1	5/1/2013 4:39:27 PM
Ethylbenzene	ND	1.0		µg/L	1	5/1/2013 4:39:27 PM
Xylenes, Total	ND	2.0		µg/L	1	5/1/2013 4:39:27 PM
Surr: 4-Bromofluorobenzene	97.6	69.4-129		%REC	1	5/1/2013 4:39:27 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-009 **Matrix:** AQUEOUS

Client Sample ID: MW-39
Collection Date: 4/23/2013 2:20:00 PM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/1/2013 10:33:23 PM
Surr: DNOP	124	75.4-146		%REC	1	5/1/2013 10:33:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/1/2013 6:10:26 PM
Surr: BFB	92.8	51.9-148		%REC	1	5/1/2013 6:10:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/1/2013 6:10:26 PM
Toluene	ND	1.0		µg/L	1	5/1/2013 6:10:26 PM
Ethylbenzene	ND	1.0		µg/L	1	5/1/2013 6:10:26 PM
Xylenes, Total	ND	2.0		µg/L	1	5/1/2013 6:10:26 PM
Surr: 4-Bromofluorobenzene	99.6	69.4-129		%REC	1	5/1/2013 6:10:26 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-010 **Matrix:** AQUEOUS

Client Sample ID: MW-52
Collection Date: 4/23/2013 2:50:00 PM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/1/2013 11:00:37 PM
Surr: DNOP	129	75.4-146		%REC	1	5/1/2013 11:00:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.11	0.050		mg/L	1	5/1/2013 6:40:37 PM
Surr: BFB	98.1	51.9-148		%REC	1	5/1/2013 6:40:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	30	1.0		µg/L	1	5/1/2013 6:40:37 PM
Toluene	ND	1.0		µg/L	1	5/1/2013 6:40:37 PM
Ethylbenzene	ND	1.0		µg/L	1	5/1/2013 6:40:37 PM
Xylenes, Total	ND	2.0		µg/L	1	5/1/2013 6:40:37 PM
Surr: 4-Bromofluorobenzene	98.4	69.4-129		%REC	1	5/1/2013 6:40:37 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-011 **Matrix:** AQUEOUS

Client Sample ID: MW-49
Collection Date: 4/23/2013 3:40:00 PM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/1/2013 11:54:47 PM
Surr: DNOP	109	75.4-146		%REC	1	5/1/2013 11:54:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/1/2013 7:10:51 PM
Surr: BFB	91.8	51.9-148		%REC	1	5/1/2013 7:10:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/1/2013 7:10:51 PM
Toluene	ND	1.0		µg/L	1	5/1/2013 7:10:51 PM
Ethylbenzene	ND	1.0		µg/L	1	5/1/2013 7:10:51 PM
Xylenes, Total	ND	2.0		µg/L	1	5/1/2013 7:10:51 PM
Surr: 4-Bromofluorobenzene	95.6	69.4-129		%REC	1	5/1/2013 7:10:51 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-48
Project: Largo CS
Collection Date: 4/23/2013 4:05:00 PM
Lab ID: 1304B01-012
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 12:21:47 AM
Surr: DNOP	153	75.4-146	S	%REC	1	5/2/2013 12:21:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	2.9	0.25		mg/L	5	5/2/2013 1:51:03 PM
Surr: BFB	163	51.5-151	S	%REC	5	5/2/2013 1:51:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	140	5.0		µg/L	5	5/2/2013 1:51:03 PM
Toluene	ND	5.0		µg/L	5	5/2/2013 1:51:03 PM
Ethylbenzene	170	5.0		µg/L	5	5/2/2013 1:51:03 PM
Xylenes, Total	310	10		µg/L	5	5/2/2013 1:51:03 PM
Surr: 4-Bromofluorobenzene	136	69.4-129	S	%REC	5	5/2/2013 1:51:03 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-38
Project: Largo CS
Collection Date: 4/23/2013 4:40:00 PM
Lab ID: 1304B01-013
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 12:48:49 AM
Surr: DNOP	155	75.4-146	S	%REC	1	5/2/2013 12:48:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/1/2013 10:12:38 PM
Surr: BFB	92.5	51.9-148		%REC	1	5/1/2013 10:12:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/1/2013 10:12:38 PM
Toluene	ND	1.0		µg/L	1	5/1/2013 10:12:38 PM
Ethylbenzene	ND	1.0		µg/L	1	5/1/2013 10:12:38 PM
Xylenes, Total	ND	2.0		µg/L	1	5/1/2013 10:12:38 PM
Surr: 4-Bromofluorobenzene	98.7	69.4-129		%REC	1	5/1/2013 10:12:38 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-37
Project: Largo CS
Collection Date: 4/23/2013 5:00:00 PM
Lab ID: 1304B01-014
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	4.1	1.0		mg/L	1	5/2/2013 1:15:54 AM
Surr: DNOP	117	75.4-146		%REC	1	5/2/2013 1:15:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	13	2.5		mg/L	50	5/1/2013 10:42:55 PM
Surr: BFB	108	51.9-148		%REC	50	5/1/2013 10:42:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	670	50		µg/L	50	5/1/2013 10:42:55 PM
Toluene	260	50		µg/L	50	5/1/2013 10:42:55 PM
Ethylbenzene	230	50		µg/L	50	5/1/2013 10:42:55 PM
Xylenes, Total	1100	100		µg/L	50	5/1/2013 10:42:55 PM
Surr: 4-Bromofluorobenzene	100	69.4-129		%REC	50	5/1/2013 10:42:55 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-015 **Matrix:** AQUEOUS

Client Sample ID: MW-36
Collection Date: 4/23/2013 5:35:00 PM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 1:42:39 AM
Surr: DNOP	114	75.4-146		%REC	1	5/2/2013 1:42:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/1/2013 11:43:29 PM
Surr: BFB	90.8	51.9-148		%REC	1	5/1/2013 11:43:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/1/2013 11:43:29 PM
Toluene	ND	1.0		µg/L	1	5/1/2013 11:43:29 PM
Ethylbenzene	ND	1.0		µg/L	1	5/1/2013 11:43:29 PM
Xylenes, Total	ND	2.0		µg/L	1	5/1/2013 11:43:29 PM
Surr: 4-Bromofluorobenzene	96.6	69.4-129		%REC	1	5/1/2013 11:43:29 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-8
Project: Largo CS
Collection Date: 4/24/2013 8:10:00 AM
Lab ID: 1304B01-016 **Matrix:** AQUEOUS **Received Date:** 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 3:02:33 AM
Surr: DNOP	104	75.4-146		%REC	1	5/2/2013 3:02:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/2/2013 12:13:51 AM
Surr: BFB	90.5	51.9-148		%REC	1	5/2/2013 12:13:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/2/2013 12:13:51 AM
Toluene	ND	1.0		µg/L	1	5/2/2013 12:13:51 AM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 12:13:51 AM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 12:13:51 AM
Surr: 4-Bromofluorobenzene	95.6	69.4-129		%REC	1	5/2/2013 12:13:51 AM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-017 **Matrix:** AQUEOUS

Client Sample ID: MW-47
Collection Date: 4/24/2013 8:50:00 AM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	2.3	1.0		mg/L	1	5/2/2013 3:29:00 AM
Surr: DNOP	99.6	75.4-146		%REC	1	5/2/2013 3:29:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	6.4	0.25		mg/L	5	5/2/2013 12:44:06 AM
Surr: BFB	595	51.9-148	S	%REC	5	5/2/2013 12:44:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	5.0		µg/L	5	5/2/2013 12:44:06 AM
Toluene	ND	5.0		µg/L	5	5/2/2013 12:44:06 AM
Ethylbenzene	5.0	5.0		µg/L	5	5/2/2013 12:44:06 AM
Xylenes, Total	ND	10		µg/L	5	5/2/2013 12:44:06 AM
Surr: 4-Bromofluorobenzene	216	69.4-129	S	%REC	5	5/2/2013 12:44:06 AM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-14
Project: Largo CS
Collection Date: 4/24/2013 9:30:00 AM
Lab ID: 1304B01-018
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 3:55:28 AM
Surr: DNOP	119	75.4-146		%REC	1	5/2/2013 3:55:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/2/2013 1:44:23 AM
Surr: BFB	92.3	51.9-148		%REC	1	5/2/2013 1:44:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/2/2013 1:44:23 AM
Toluene	ND	1.0		µg/L	1	5/2/2013 1:44:23 AM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 1:44:23 AM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 1:44:23 AM
Surr: 4-Bromofluorobenzene	102	69.4-129		%REC	1	5/2/2013 1:44:23 AM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-019 **Matrix:** AQUEOUS

Client Sample ID: MW-15
Collection Date: 4/24/2013 10:05:00 AM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 4:48:56 AM
Surr: DNOP	107	75.4-146		%REC	1	5/2/2013 4:48:56 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.094	0.050		mg/L	1	5/2/2013 2:14:38 AM
Surr: BFB	102	51.9-148		%REC	1	5/2/2013 2:14:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	6.4	1.0		µg/L	1	5/2/2013 2:14:38 AM
Toluene	ND	1.0		µg/L	1	5/2/2013 2:14:38 AM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 2:14:38 AM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 2:14:38 AM
Surr: 4-Bromofluorobenzene	102	69.4-129		%REC	1	5/2/2013 2:14:38 AM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-3R
Project: Largo CS
Collection Date: 4/24/2013 10:45:00 AM
Lab ID: 1304B01-020
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 5:15:41 AM
Surr: DNOP	126	75.4-146		%REC	1	5/2/2013 5:15:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/2/2013 3:15:12 AM
Surr: BFB	96.5	51.9-148		%REC	1	5/2/2013 3:15:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/2/2013 3:15:12 AM
Toluene	ND	1.0		µg/L	1	5/2/2013 3:15:12 AM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 3:15:12 AM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 3:15:12 AM
Surr: 4-Bromofluorobenzene	97.3	69.4-129		%REC	1	5/2/2013 3:15:12 AM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-7
Project: Largo CS
Collection Date: 4/24/2013 11:20:00 AM
Lab ID: 1304B01-021 **Matrix:** AQUEOUS **Received Date:** 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 5:42:57 AM
Surr: DNOP	137	75.4-146		%REC	1	5/2/2013 5:42:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.60	0.050		mg/L	1	5/2/2013 2:21:12 PM
Surr: BFB	100	51.5-151		%REC	1	5/2/2013 2:21:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	120	10		µg/L	10	5/2/2013 3:45:27 AM
Toluene	ND	1.0		µg/L	1	5/2/2013 2:21:12 PM
Ethylbenzene	2.1	1.0		µg/L	1	5/2/2013 2:21:12 PM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 2:21:12 PM
Surr: 4-Bromofluorobenzene	105	69.4-129		%REC	1	5/2/2013 2:21:12 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-022 **Matrix:** AQUEOUS

Client Sample ID: MW-13
Collection Date: 4/24/2013 11:55:00 AM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 6:09:58 AM
Surr: DNOP	148	75.4-146	S	%REC	1	5/2/2013 6:09:58 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/2/2013 3:21:42 PM
Surr: BFB	88.7	51.5-151		%REC	1	5/2/2013 3:21:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/2/2013 3:21:42 PM
Toluene	ND	1.0		µg/L	1	5/2/2013 3:21:42 PM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 3:21:42 PM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 3:21:42 PM
Surr: 4-Bromofluorobenzene	98.6	69.4-129		%REC	1	5/2/2013 3:21:42 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-023 **Matrix:** AQUEOUS

Client Sample ID: MW-6
Collection Date: 4/24/2013 12:30:00 PM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 6:37:29 AM
Surr: DNOP	147	75.4-146	S	%REC	1	5/2/2013 6:37:29 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/2/2013 4:52:43 PM
Surr: BFB	91.8	51.5-151		%REC	1	5/2/2013 4:52:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/2/2013 4:52:43 PM
Toluene	ND	1.0		µg/L	1	5/2/2013 4:52:43 PM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 4:52:43 PM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 4:52:43 PM
Surr: 4-Bromofluorobenzene	103	69.4-129		%REC	1	5/2/2013 4:52:43 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-9
Project: Largo CS
Collection Date: 4/24/2013 1:10:00 PM
Lab ID: 1304B01-024
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 7:04:40 AM
Surr: DNOP	147	75.4-146	S	%REC	1	5/2/2013 7:04:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/2/2013 6:25:50 PM
Surr: BFB	91.8	51.5-151		%REC	1	5/2/2013 6:25:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/2/2013 6:25:50 PM
Toluene	ND	1.0		µg/L	1	5/2/2013 6:25:50 PM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 6:25:50 PM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 6:25:50 PM
Surr: 4-Bromofluorobenzene	104	69.4-129		%REC	1	5/2/2013 6:25:50 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-16
Project: Largo CS
Collection Date: 4/24/2013 2:10:00 PM
Lab ID: 1304B01-025
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 7:31:48 AM
Surr: DNOP	139	75.4-146		%REC	1	5/2/2013 7:31:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.097	0.050		mg/L	1	5/2/2013 6:56:04 PM
Surr: BFB	106	51.5-151		%REC	1	5/2/2013 6:56:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	10	1.0		µg/L	1	5/2/2013 6:56:04 PM
Toluene	ND	1.0		µg/L	1	5/2/2013 6:56:04 PM
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 6:56:04 PM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 6:56:04 PM
Surr: 4-Bromofluorobenzene	104	69.4-129		%REC	1	5/2/2013 6:56:04 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-11
Project: Largo CS
Collection Date: 4/24/2013 2:55:00 PM
Lab ID: 1304B01-026
Matrix: AQUEOUS
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/2/2013 7:58:31 AM
Surr: DNOP	126	75.4-146		%REC	1	5/2/2013 7:58:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	0.14	0.050		mg/L	1	5/2/2013 8:26:47 PM
Surr: BFB	97.6	51.5-151		%REC	1	5/2/2013 8:26:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	40	1.0		µg/L	1	5/2/2013 8:26:47 PM
Toluene	ND	1.0		µg/L	1	5/2/2013 8:26:47 PM
Ethylbenzene	1.5	1.0		µg/L	1	5/2/2013 8:26:47 PM
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 8:26:47 PM
Surr: 4-Bromofluorobenzene	102	69.4-129		%REC	1	5/2/2013 8:26:47 PM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1304B01-027 **Matrix:** AQUEOUS

Client Sample ID: MW-12
Collection Date: 4/24/2013 4:00:00 PM
Received Date: 4/26/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **GSA**
Diesel Range Organics (DRO)	5.8	1.0		mg/L	1	5/2/2013 8:25:00 AM
Surr: DNOP	126	75.4-146		%REC	1	5/2/2013 8:25:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	23	0.25		mg/L	5	5/2/2013 10:58:10 PM
Surr: BFB	115	51.5-151		%REC	5	5/2/2013 10:58:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	6900	100		µg/L	100	5/3/2013 12:31:21 PM
Toluene	150	5.0		µg/L	5	5/2/2013 10:58:10 PM
Ethylbenzene	96	5.0		µg/L	5	5/2/2013 10:58:10 PM
Xylenes, Total	850	10		µg/L	5	5/2/2013 10:58:10 PM
Surr: 4-Bromofluorobenzene	116	69.4-129		%REC	5	5/2/2013 10:58:10 PM

Qualifiers:

*	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
P	Sample pH greater than 2	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#: **1304B01**

08-May-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID: **MB-7203**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Diesel Range**					
Client ID: **PBW**	Batch ID: **7203**			RunNo: **10178**					
Prep Date: **4/29/2013**	Analysis Date: **4/29/2013**			SeqNo: **290286**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.2		1.000		121	75.4	146			

Sample ID: **LCS-7203**	SampType: **LCS**			TestCode: **EPA Method 8015D: Diesel Range**					
Client ID: **LCSW**	Batch ID: **7203**			RunNo: **10178**					
Prep Date: **4/29/2013**	Analysis Date: **4/29/2013**			SeqNo: **290287**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.2	1.0	5.000	0	125	89.1	151			
Surr: DNOP	0.59		0.5000		118	75.4	146			

Sample ID: **MB-7242**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Diesel Range**					
Client ID: **PBW**	Batch ID: **7242**			RunNo: **10237**					
Prep Date: **5/1/2013**	Analysis Date: **5/2/2013**			SeqNo: **292573**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.0		1.000		104	75.4	146			

Sample ID: **LCS-7242**	SampType: **LCS**			TestCode: **EPA Method 8015D: Diesel Range**					
Client ID: **LCSW**	Batch ID: **7242**			RunNo: **10237**					
Prep Date: **5/1/2013**	Analysis Date: **5/2/2013**			SeqNo: **292574**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.0	1.0	5.000	0	101	89.1	151			
Surr: DNOP	0.51		0.5000		102	75.4	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304B01**

08-May-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID: **5ML RB**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **PBW**	Batch ID: **R10256**			RunNo: **10256**					
Prep Date:	Analysis Date: **5/1/2013**			SeqNo: **292404**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		91.2	51.9	148			

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **LCSW**	Batch ID: **R10256**			RunNo: **10256**					
Prep Date:	Analysis Date: **5/1/2013**			SeqNo: **292405**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	97.0	73.2	124			
Surr: BFB	19		20.00		96.6	51.9	148			

Sample ID: **1304B01-001AMS**	SampType: **MS**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **MW-40R**	Batch ID: **R10256**			RunNo: **10256**					
Prep Date:	Analysis Date: **5/1/2013**			SeqNo: **292408**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	101	65.2	137			
Surr: BFB	19		20.00		96.2	51.9	148			

Sample ID: **1304B01-001AMSD**	SampType: **MSD**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **MW-40R**	Batch ID: **R10256**			RunNo: **10256**					
Prep Date:	Analysis Date: **5/2/2013**			SeqNo: **292409**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	92.4	65.2	137	8.97	20	
Surr: BFB	19		20.00		97.4	51.9	148	0	0	

Sample ID: **5ML RB**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **PBW**	Batch ID: **R10258**			RunNo: **10258**					
Prep Date:	Analysis Date: **5/1/2013**			SeqNo: **292494**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		92.1	51.9	148			

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **LCSW**	Batch ID: **R10258**			RunNo: **10258**					
Prep Date:	Analysis Date: **5/1/2013**			SeqNo: **292496**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.57	0.050	0.5000	0	114	73.2	124			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304B01**

08-May-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **LCSW**	Batch ID: **R10258**			RunNo: **10258**					
Prep Date:	Analysis Date: **5/1/2013**			SeqNo: **292496**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	20		20.00		100	51.9	148			

Sample ID: **1304B01-007AMS**	SampType: **MS**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **MW-75**	Batch ID: **R10258**			RunNo: **10258**					
Prep Date:	Analysis Date: **5/1/2013**			SeqNo: **292509**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.56	0.050	0.5000	0	112	65.2	137			
Surr: BFB	20		20.00		98.5	51.9	148			

Sample ID: **1304B01-007AMSD**	SampType: **MSD**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **MW-75**	Batch ID: **R10258**			RunNo: **10258**					
Prep Date:	Analysis Date: **5/1/2013**			SeqNo: **292510**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.55	0.050	0.5000	0	110	65.2	137	1.98	20	
Surr: BFB	20		20.00		99.7	51.9	148	0	0	

Sample ID: **5ML RB**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **PBW**	Batch ID: **R10280**			RunNo: **10280**					
Prep Date:	Analysis Date: **5/2/2013**			SeqNo: **293163**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		90.5	51.5	151			

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **LCSW**	Batch ID: **R10280**			RunNo: **10280**					
Prep Date:	Analysis Date: **5/2/2013**			SeqNo: **293164**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.56	0.050	0.5000	0	112	73.2	124			
Surr: BFB	20		20.00		99.6	51.5	151			

Sample ID: **1304B01-022AMS**	SampType: **MS**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **MW-13**	Batch ID: **R10280**			RunNo: **10280**					
Prep Date:	Analysis Date: **5/2/2013**			SeqNo: **293171**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.55	0.050	0.5000	0	109	65.2	137			
Surr: BFB	20		20.00		97.9	51.5	151			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304B01**

08-May-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID: **1304B01-022AMSD**	SampType: **MSD**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **MW-13**	Batch ID: **R10280**			RunNo: **10280**					
Prep Date:	Analysis Date: **5/2/2013**			SeqNo: **293172**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.53	0.050	0.5000	0	107	65.2	137	2.55	20	
Surr: BFB	20		20.00		98.5	51.5	151	0	0	

Sample ID: **5ML RB**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **PBW**	Batch ID: **R10320**			RunNo: **10320**					
Prep Date:	Analysis Date: **5/3/2013**			SeqNo: **294180**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	18		20.00		90.6	51.5	151			

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **LCSW**	Batch ID: **R10320**			RunNo: **10320**					
Prep Date:	Analysis Date: **5/3/2013**			SeqNo: **294181**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	20		20.00		99.8	51.5	151			

Qualifiers:

*	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
P	Sample pH greater than 2	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#: **1304B01**

08-May-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID: **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R10256**	RunNo: **10256**
Prep Date:	Analysis Date: **5/1/2013**	SeqNo: **292424** 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								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	21		20.00		103	69.4	129			

Sample ID: **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R10256**	RunNo: **10256**
Prep Date:	Analysis Date: **5/1/2013**	SeqNo: **292426** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	80	120			
Toluene	20	1.0	20.00	0	102	80	120			
Ethylbenzene	20	1.0	20.00	0	101	80	120			
Xylenes, Total	60	2.0	60.00	0	101	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		108	69.4	129			

Sample ID: **1304A92-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R10256**	RunNo: **10256**
Prep Date:	Analysis Date: **5/1/2013**	SeqNo: **292436** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	28	1.0	20.00	7.199	104	80	120			
Toluene	21	1.0	20.00	0.2406	102	80	120			
Ethylbenzene	20	1.0	20.00	0	99.9	80	120			
Xylenes, Total	60	2.0	60.00	0.6764	99.4	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		106	69.4	129			

Sample ID: **1304A92-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R10256**	RunNo: **10256**
Prep Date:	Analysis Date: **5/1/2013**	SeqNo: **292437** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	26	1.0	20.00	7.199	92.0	80	120	8.86	20	
Toluene	18	1.0	20.00	0.2406	91.1	80	120	10.8	20	
Ethylbenzene	18	1.0	20.00	0	91.4	80	120	8.92	20	
Xylenes, Total	55	2.0	60.00	0.6764	89.9	80	120	9.93	20	
Surr: 4-Bromofluorobenzene	22		20.00		108	69.4	129	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1304B01**

08-May-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID: **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R10258**	RunNo: **10258**
Prep Date:	Analysis Date: **5/1/2013**	SeqNo: **292542** 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								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	21		20.00		103	69.4	129			

Sample ID: **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R10258**	RunNo: **10258**
Prep Date:	Analysis Date: **5/1/2013**	SeqNo: **292543** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	80	120			
Toluene	21	1.0	20.00	0	104	80	120			
Ethylbenzene	21	1.0	20.00	0	105	80	120			
Xylenes, Total	65	2.0	60.00	0	108	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		106	69.4	129			

Sample ID: **1304B01-008AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-34**	Batch ID: **R10258**	RunNo: **10258**
Prep Date:	Analysis Date: **5/1/2013**	SeqNo: **292549** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	17	1.0	20.00	0	83.8	80	120			
Toluene	17	1.0	20.00	0.3300	83.2	80	120			
Ethylbenzene	17	1.0	20.00	0	85.2	80	120			
Xylenes, Total	54	2.0	60.00	0	90.4	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		101	69.4	129			

Sample ID: **1304B01-008AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-34**	Batch ID: **R10258**	RunNo: **10258**
Prep Date:	Analysis Date: **5/1/2013**	SeqNo: **292550** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	16	1.0	20.00	0	82.4	80	120	1.66	20	
Toluene	17	1.0	20.00	0.3300	81.4	80	120	2.19	20	
Ethylbenzene	17	1.0	20.00	0	83.1	80	120	2.46	20	
Xylenes, Total	53	2.0	60.00	0	88.7	80	120	1.98	20	
Surr: 4-Bromofluorobenzene	20		20.00		101	69.4	129	0	0	

Qualifiers:

*	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
P	Sample pH greater than 2	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#: **1304B01**

08-May-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID: **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R10280**	RunNo: **10280**
Prep Date:	Analysis Date: **5/2/2013**	SeqNo: **293191** 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								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		102	69.4	129			

Sample ID: **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R10280**	RunNo: **10280**
Prep Date:	Analysis Date: **5/2/2013**	SeqNo: **293192** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	80	120			
Toluene	20	1.0	20.00	0	100	80	120			
Ethylbenzene	20	1.0	20.00	0	100	80	120			
Xylenes, Total	61	2.0	60.00	0	101	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		105	69.4	129			

Sample ID: **1304B01-023AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-6**	Batch ID: **R10280**	RunNo: **10280**
Prep Date:	Analysis Date: **5/2/2013**	SeqNo: **293197** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.3	80	120			
Toluene	20	1.0	20.00	0.3400	97.9	80	120			
Ethylbenzene	20	1.0	20.00	0	99.8	80	120			
Xylenes, Total	61	2.0	60.00	0	102	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		106	69.4	129			

Sample ID: **1304B01-023AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-6**	Batch ID: **R10280**	RunNo: **10280**
Prep Date:	Analysis Date: **5/2/2013**	SeqNo: **293198** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	80	120	1.24	20	
Toluene	20	1.0	20.00	0.3400	99.3	80	120	1.41	20	
Ethylbenzene	20	1.0	20.00	0	101	80	120	1.20	20	
Xylenes, Total	61	2.0	60.00	0	102	80	120	0.366	20	
Surr: 4-Bromofluorobenzene	22		20.00		108	69.4	129	0	0	

Qualifiers:

*	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
P	Sample pH greater than 2	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#: **1304B01**

08-May-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID: **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R10320**	RunNo: **10320**
Prep Date:	Analysis Date: **5/3/2013**	SeqNo: **294192** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Surr: 4-Bromofluorobenzene	20		20.00		101	69.4	129			

Sample ID: **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R10320**	RunNo: **10320**
Prep Date:	Analysis Date: **5/3/2013**	SeqNo: **294193** 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	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		106	69.4	129			

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

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: **Southwest Geoscience** Work Order Number: **1304B01** RcptNo: **1**

Received by/date: 04/26/13

Logged By: **Ashley Gallegos** **4/26/2013 10:00:00 AM**

Completed By: **Ashley Gallegos** **4/26/2013 2:11:04 PM**

Reviewed By: AT 04/29/13

Chain of Custody

1. Custody seals intact on sample bottles?	Yes	No	Not Present ✔
2. Is Chain of Custody complete?	Yes ✔	No	Not Present
3. How was the sample delivered?	Courier		

Log In

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

Special Handling (if applicable)

16. 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: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE
Environmental & Hydrogeologic Consultants

Office Location: Aztec, NM
Project Manager: K. Summers

Laboratory: HALL
Address: Albuquerque
4901 Hawkins NE
Contact:
Phone:
PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 1-0

1	2	3	4	5

Page 1 of 3

Sampler's Name: Aaron Bentley
Sampler's Signature: Aaron Bentley

Proj. No.: 04l0002
Project Name: Largo CS

ANALYSIS REQUESTED: TPH, BTEX

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	P/O	Lab Sample ID (Lab Use Only)
W	4/23/13	0830		✓	MW-40R			5				1304801-001
		0905		✓	MW-50							-002
		1020		✓	MW-51							-003
		1050		✓	MW-41							-004
		1210		✓	MW-43							-005
		1320		✓	MW-32							-006
		1250		✓	MW-75							-007
		1350		✓	MW-34							-008
		1420		✓	MW-39							-009
↓	↓	1450		✓	MW-52			↓				-010

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

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Aaron Bentley	4/24/13	1816	Mister Waters	4/24/13	1810
Mister Waters	4/25/13	1750		04/26/13	1000

NOTES:

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

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE
Environmental & Hydrogeologic Consultants

Office Location: Aztec, NM
Project Manager: K. Summers

Laboratory: HALL
Address: 4901 Hawkins NE
Albuquerque
Contact:
Phone:
PO/SO #:

Lab use only
Due Date:
Temp. of coolers when received (C°): 1.2°C
1 | 2 | 3 | 4 | 5
Page 2 of 3

Sampler's Name: Aaron Bentley
Sampler's Signature: Aaron Bentley

Proj. No.: 04100002
Project Name: Largo CS

ANALYSIS REQUESTED: TPH, BTEX

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	P/O	Lab Sample ID (Lab Use Only)
W	4/23/13	1540		✓	MW-49			5				1304B01-011
		1605		✓	MW-48							-012
		1640		✓	MW-38							-013
		1700		✓	MW-37							-014
	↓	1735		✓	MW-36							-015
	4/24/13	0810		✓	MW-8							-016
		0850		✓	MW-47							-017
		0930		✓	MW-14							-018
		1005		✓	MW-15							-019
↓	↓	1045		✓	MW-3R			↓				-020

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

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Aaron Bentley	4/24/13	1810	Heather Wells	4/24/13	1810
Heather Wells	4/25/13	1750		04/26/13	1000
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:

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

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE
Environmental & Hydrogeologic Consultants

Office Location: Aztec, NM
Project Manager: K. Summers

Laboratory: HALL
Address: 4901 Hawkins NE
4901 Albuquerque
Contact:
Phone:
PO/SO #:

Lab use only
Due Date:

Temp. of coolers when received (C°): 1-0

1	2	3	4	5

Page 3 of 3

Sampler's Name: Aaron Bentley
Sampler's Signature: Aaron Bentley

Proj. No.: 041002
Project Name: Largo CS ~~041002~~ per Aaron Bentley

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	P/O	ANALYSIS REQUESTED: TPH	BTEX	Lab Sample ID (Lab Use Only)
W	4/24/13	1120		✓	MW-7			5						1304801-021
		1155		✓	MW-13									-022
		1230		✓	MW-6									-023
		1310		✓	MW-9									-024
		1410		✓	MW-16									-025
		1455		✓	MW-11									-026
↓	↓	1600		✓	MW-12			↓				↓	↓	-027

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

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Aaron Bentley	4/24/13	1816	Christine Walters	4/24/13	1810
Christine Walters	4/25/13	1750		04/26/13	1000
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:

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

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

May 13, 2013

Kyle Summers

Southwest Geoscience
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX: (214) 350-2914

RE: Largo CS

OrderNo.: 1305154

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/4/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1305154**
Date Reported: **5/13/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1305154-001 **Matrix:** AQUEOUS

Client Sample ID: MW-53
Collection Date: 5/3/2013 8:55:13 AM
Received Date: 5/4/2013 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/9/2013 2:25:06 PM
Surr: DNOP	127	75.4-146		%REC	1	5/9/2013 2:25:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/7/2013 1:33:45 AM
Surr: BFB	92.3	51.5-151		%REC	1	5/7/2013 1:33:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/7/2013 1:33:45 AM
Toluene	ND	1.0		µg/L	1	5/7/2013 1:33:45 AM
Ethylbenzene	ND	1.0		µg/L	1	5/7/2013 1:33:45 AM
Xylenes, Total	ND	2.0		µg/L	1	5/7/2013 1:33:45 AM
Surr: 4-Bromofluorobenzene	100	69.4-129		%REC	1	5/7/2013 1:33:45 AM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1305154-002 **Matrix:** AQUEOUS

Client Sample ID: MW-54
Collection Date: 5/3/2013 9:45:00 AM
Received Date: 5/4/2013 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/9/2013 2:52:53 PM
Surr: DNOP	122	75.4-146		%REC	1	5/9/2013 2:52:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	5/7/2013 3:04:14 AM
Surr: BFB	92.1	51.5-151		%REC	1	5/7/2013 3:04:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/7/2013 3:04:14 AM
Toluene	ND	1.0		µg/L	1	5/7/2013 3:04:14 AM
Ethylbenzene	ND	1.0		µg/L	1	5/7/2013 3:04:14 AM
Xylenes, Total	ND	2.0		µg/L	1	5/7/2013 3:04:14 AM
Surr: 4-Bromofluorobenzene	102	69.4-129		%REC	1	5/7/2013 3:04:14 AM

Qualifiers:

*	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
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1305154-003 **Matrix:** AQUEOUS

Client Sample ID: MW-55
Collection Date: 5/3/2013 10:40:00 AM
Received Date: 5/4/2013 12:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	5/9/2013 3:20:28 PM
Surr: DNOP	126	75.4-146		%REC	1	5/9/2013 3:20:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	1.3	0.050		mg/L	1	5/7/2013 3:34:36 AM
Surr: BFB	99.0	51.5-151		%REC	1	5/7/2013 3:34:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/7/2013 3:34:36 AM
Toluene	ND	1.0		µg/L	1	5/7/2013 3:34:36 AM
Ethylbenzene	13	1.0		µg/L	1	5/7/2013 3:34:36 AM
Xylenes, Total	710	20		µg/L	10	5/7/2013 1:06:29 PM
Surr: 4-Bromofluorobenzene	110	69.4-129		%REC	1	5/7/2013 3:34:36 AM

Qualifiers:

*	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
P	Sample pH greater than 2	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#: **1305154**

13-May-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID: **MB-7293**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **PBW**	Batch ID: **7293**	RunNo: **10338**							
Prep Date: **5/6/2013**	Analysis Date: **5/7/2013**	SeqNo: **295280**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.9		2.000		96.8	75.4	146			

Sample ID: **LCS-7293**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **LCSW**	Batch ID: **7293**	RunNo: **10338**							
Prep Date: **5/6/2013**	Analysis Date: **5/7/2013**	SeqNo: **295287**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.7	1.0	5.000	0	113	89.1	151			
Surr: DNOP	0.53		0.5000		106	75.4	146			

Sample ID: **LCSD-7293**	SampType: **LCSD**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **LCSS02**	Batch ID: **7293**	RunNo: **10338**							
Prep Date: **5/6/2013**	Analysis Date: **5/7/2013**	SeqNo: **295289**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	111	89.1	151	2.44	20	
Surr: DNOP	0.51		0.5000		101	75.4	146	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1305154**

13-May-13

Client: Southwest Geoscience
Project: Largo CS

Sample ID: **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBW**	Batch ID: **R10327**	RunNo: **10327**							
Prep Date:	Analysis Date: **5/6/2013**	SeqNo: **294734**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		91.5	51.5	151			

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSW**	Batch ID: **R10327**	RunNo: **10327**							
Prep Date:	Analysis Date: **5/6/2013**	SeqNo: **294737**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.55	0.050	0.5000	0	110	73.2	124			
Surr: BFB	20		20.00		101	51.5	151			

Sample ID: **1305154-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **MW-53**	Batch ID: **R10327**	RunNo: **10327**							
Prep Date:	Analysis Date: **5/7/2013**	SeqNo: **294741**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	103	65.2	137			
Surr: BFB	20		20.00		100	51.5	151			

Sample ID: **1305154-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **MW-53**	Batch ID: **R10327**	RunNo: **10327**							
Prep Date:	Analysis Date: **5/7/2013**	SeqNo: **294742**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	104	65.2	137	1.39	20	
Surr: BFB	20		20.00		100	51.5	151	0	0	

Sample ID: **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBW**	Batch ID: **R10452**	RunNo: **10452**							
Prep Date:	Analysis Date: **5/7/2013**	SeqNo: **295757**	Units: **%REC**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	18		20.00		91.2	51.5	151			

Sample ID: **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSW**	Batch ID: **R10452**	RunNo: **10452**							
Prep Date:	Analysis Date: **5/7/2013**	SeqNo: **295758**	Units: **%REC**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	20		20.00		98.3	51.5	151			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1305154**

13-May-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID: **5ML RB**	SampType: **MBLK**			TestCode: **EPA Method 8021B: Volatiles**					
Client ID: **PBW**	Batch ID: **R10327**			RunNo: **10327**					
Prep Date:	Analysis Date: **5/6/2013**			SeqNo: **294813**		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								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		102	69.4	129			

Sample ID: **100NG BTEX LCS**	SampType: **LCS**			TestCode: **EPA Method 8021B: Volatiles**					
Client ID: **LCSW**	Batch ID: **R10327**			RunNo: **10327**					
Prep Date:	Analysis Date: **5/6/2013**			SeqNo: **294818**		Units: **µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	80	120			
Toluene	20	1.0	20.00	0	102	80	120			
Ethylbenzene	20	1.0	20.00	0	102	80	120			
Xylenes, Total	62	2.0	60.00	0	103	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		105	69.4	129			

Sample ID: **5ML RB**	SampType: **MBLK**			TestCode: **EPA Method 8021B: Volatiles**					
Client ID: **PBW**	Batch ID: **R10452**			RunNo: **10452**					
Prep Date:	Analysis Date: **5/7/2013**			SeqNo: **295770**		Units: **µg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		99.6	69.4	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 8710[illegible]
TEL: 505-345-3975 FAX: 505-345-410[illegible]
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Southwest Geoscience Work Order Number: 1305154 RcptNo: 1

Received by/date: AF 05/04/13

Logged By: **Michelle Garcia** 5/4/2013 12:00:00 PM Michelle Garcia

Completed By: **Michelle Garcia** 5/6/2013 8:57:43 AM Michelle Garcia

Reviewed By: 05/06/13

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. 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)

16. 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: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.5	Good	Yes			

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE
Environmental & Hydrogeologic Consultants

Office Location: Aztec
Project Manager: Summers

Laboratory: Hall
Address: ABQ
Contact: Andy Freeman
Phone:
PO/SO #: 04106002

Sampler's Name: Kyle Summers
Sampler's Signature:

Proj. No.: 04106002
Project Name: Largo CS

Lab use only
Due Date:
Temp. of coolers when received (C°): 3.5
1 2 3 4 5
Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	P/O	ANALYSIS REQUESTED: BTEX 8021	TPH GRO/DRO 8015	Lab Sample ID (Lab Use Only)
W	5/3/13	0855		X	MW-53			5				X	X	1305154-001
↓	↓	0945		↓	MW-54			↓				↓	↓	-002
↓	↓	1040		↓	MW-55			↓				↓	↓	-003
					NES KJS									

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

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/3/13	1330	Mustin Walls	5/3/13	1330
Mustin Walls	5/3/13	1530		5/4/13	12:00
	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

NOTES:
3.5°C

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

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

November 04, 2013

Kyle Summers
Southwest Geoscience
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX (214) 350-2914

RE: Largo Compressor Station OrderNo.: 1310D53

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 28 sample(s) on 10/29/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-001 **Matrix:** AQUEOUS

Client Sample ID: MW-14
Collection Date: 10/25/2013 8:20:00 AM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/30/2013 8:09:11 PM	10098
Surr: DNOP	127	70.1-140		%REC	1	10/30/2013 8:09:11 PM	10098
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/30/2013 11:15:07 PM	R14466
Surr: BFB	97.1	51.5-151		%REC	1	10/30/2013 11:15:07 PM	R14466
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/30/2013 11:15:07 PM	R14466
Toluene	ND	1.0		µg/L	1	10/30/2013 11:15:07 PM	R14466
Ethylbenzene	ND	1.0		µg/L	1	10/30/2013 11:15:07 PM	R14466
Xylenes, Total	ND	2.0		µg/L	1	10/30/2013 11:15:07 PM	R14466
Surr: 4-Bromofluorobenzene	116	85-136		%REC	1	10/30/2013 11:15:07 PM	R14466

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-002 **Matrix:** AQUEOUS

Client Sample ID: MW-76
Collection Date: 10/25/2013 9:30:00 AM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/30/2013 8:31:24 PM	10098
Surr: DNOP	128	70.1-140		%REC	1	10/30/2013 8:31:24 PM	10098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/30/2013 11:43:42 PM	R14466
Surr: BFB	98.8	51.5-151		%REC	1	10/30/2013 11:43:42 PM	R14466
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/30/2013 11:43:42 PM	R14466
Toluene	ND	1.0		µg/L	1	10/30/2013 11:43:42 PM	R14466
Ethylbenzene	ND	1.0		µg/L	1	10/30/2013 11:43:42 PM	R14466
Xylenes, Total	ND	2.0		µg/L	1	10/30/2013 11:43:42 PM	R14466
Surr: 4-Bromofluorobenzene	119	85-136		%REC	1	10/30/2013 11:43:42 PM	R14466

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-003 **Matrix:** AQUEOUS

Client Sample ID: MW-13
Collection Date: 10/25/2013 9:35:00 AM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/30/2013 8:53:39 PM	10098
Surr: DNOP	131	70.1-140		%REC	1	10/30/2013 8:53:39 PM	10098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 12:12:17 AM	R14466
Surr: BFB	93.5	51.5-151		%REC	1	10/31/2013 12:12:17 AM	R14466
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 12:12:17 AM	R14466
Toluene	ND	1.0		µg/L	1	10/31/2013 12:12:17 AM	R14466
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 12:12:17 AM	R14466
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 12:12:17 AM	R14466
Surr: 4-Bromofluorobenzene	110	85-136		%REC	1	10/31/2013 12:12:17 AM	R14466

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-004 **Matrix:** AQUEOUS

Client Sample ID: MW-34
Collection Date: 10/25/2013 9:45:00 AM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/30/2013 9:15:47 PM	10098
Surr: DNOP	129	70.1-140		%REC	1	10/30/2013 9:15:47 PM	10098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 12:40:48 AM	R14466
Surr: BFB	99.1	51.5-151		%REC	1	10/31/2013 12:40:48 AM	R14466
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 12:40:48 AM	R14466
Toluene	ND	1.0		µg/L	1	10/31/2013 12:40:48 AM	R14466
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 12:40:48 AM	R14466
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 12:40:48 AM	R14466
Surr: 4-Bromofluorobenzene	119	85-136		%REC	1	10/31/2013 12:40:48 AM	R14466

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-36
Project: Largo Compressor Station
Collection Date: 10/25/2013 10:40:00 AM
Lab ID: 1310D53-005 **Matrix:** AQUEOUS **Received Date:** 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/30/2013 9:38:02 PM	10098
Surr: DNOP	136	70.1-140		%REC	1	10/30/2013 9:38:02 PM	10098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 1:09:23 AM	R14466
Surr: BFB	98.7	51.5-151		%REC	1	10/31/2013 1:09:23 AM	R14466
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 1:09:23 AM	R14466
Toluene	ND	1.0		µg/L	1	10/31/2013 1:09:23 AM	R14466
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 1:09:23 AM	R14466
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 1:09:23 AM	R14466
Surr: 4-Bromofluorobenzene	117	85-136		%REC	1	10/31/2013 1:09:23 AM	R14466

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-006 **Matrix:** AQUEOUS

Client Sample ID: MW-49
Collection Date: 10/25/2013 12:05:00 PM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/30/2013 10:00:12 PM	10098
Surr: DNOP	112	70.1-140		%REC	1	10/30/2013 10:00:12 PM	10098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 1:37:54 AM	R14466
Surr: BFB	96.8	51.5-151		%REC	1	10/31/2013 1:37:54 AM	R14466
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 1:37:54 AM	R14466
Toluene	ND	1.0		µg/L	1	10/31/2013 1:37:54 AM	R14466
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 1:37:54 AM	R14466
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 1:37:54 AM	R14466
Surr: 4-Bromofluorobenzene	115	85-136		%REC	1	10/31/2013 1:37:54 AM	R14466

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-83
Project: Largo Compressor Station
Collection Date: 10/25/2013 1:20:00 PM
Lab ID: 1310D53-007
Matrix: AQUEOUS
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/30/2013 10:22:25 PM	10098
Surr: DNOP	115	70.1-140		%REC	1	10/30/2013 10:22:25 PM	10098
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 2:06:23 AM	R14466
Surr: BFB	100	51.5-151		%REC	1	10/31/2013 2:06:23 AM	R14466
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 2:06:23 AM	R14466
Toluene	ND	1.0		µg/L	1	10/31/2013 2:06:23 AM	R14466
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 2:06:23 AM	R14466
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 2:06:23 AM	R14466
Surr: 4-Bromofluorobenzene	122	85-136		%REC	1	10/31/2013 2:06:23 AM	R14466

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-008 **Matrix:** AQUEOUS

Client Sample ID: MW-7
Collection Date: 10/25/2013 3:00:00 PM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/30/2013 10:44:26 PM	10098
Surr: DNOP	112	70.1-140		%REC	1	10/30/2013 10:44:26 PM	10098
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	0.19	0.050		mg/L	1	10/31/2013 2:34:52 AM	R14466
Surr: BFB	98.9	51.5-151		%REC	1	10/31/2013 2:34:52 AM	R14466
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	45	1.0		µg/L	1	10/31/2013 2:34:52 AM	R14466
Toluene	ND	1.0		µg/L	1	10/31/2013 2:34:52 AM	R14466
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 2:34:52 AM	R14466
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 2:34:52 AM	R14466
Surr: 4-Bromofluorobenzene	118	85-136		%REC	1	10/31/2013 2:34:52 AM	R14466

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-009 **Matrix:** AQUEOUS

Client Sample ID: MW-32
Collection Date: 10/24/2013 9:25:00 AM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/30/2013 11:06:44 PM	10098
Surr: DNOP	116	70.1-140		%REC	1	10/30/2013 11:06:44 PM	10098
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/30/2013 9:37:21 PM	R14452
Surr: BFB	94.9	51.5-151		%REC	1	10/30/2013 9:37:21 PM	R14452
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/30/2013 9:37:21 PM	R14452
Toluene	ND	1.0		µg/L	1	10/30/2013 9:37:21 PM	R14452
Ethylbenzene	ND	1.0		µg/L	1	10/30/2013 9:37:21 PM	R14452
Xylenes, Total	ND	2.0		µg/L	1	10/30/2013 9:37:21 PM	R14452
Surr: 4-Bromofluorobenzene	101	85-136		%REC	1	10/30/2013 9:37:21 PM	R14452

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-8
Project: Largo Compressor Station
Collection Date: 10/24/2013 10:25:00 AM
Lab ID: 1310D53-010
Matrix: AQUEOUS
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/30/2013 11:28:42 PM	10098
Surr: DNOP	117	70.1-140		%REC	1	10/30/2013 11:28:42 PM	10098
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/30/2013 11:08:19 PM	R14452
Surr: BFB	97.0	51.5-151		%REC	1	10/30/2013 11:08:19 PM	R14452
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/30/2013 11:08:19 PM	R14452
Toluene	ND	1.0		µg/L	1	10/30/2013 11:08:19 PM	R14452
Ethylbenzene	ND	1.0		µg/L	1	10/30/2013 11:08:19 PM	R14452
Xylenes, Total	ND	2.0		µg/L	1	10/30/2013 11:08:19 PM	R14452
Surr: 4-Bromofluorobenzene	105	85-136		%REC	1	10/30/2013 11:08:19 PM	R14452

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-011 **Matrix:** AQUEOUS

Client Sample ID: MW-54
Collection Date: 10/24/2013 12:35:00 PM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: **JME**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 12:12:44 AM	10079
Surr: DNOP	115	70.1-140		%REC	1	10/31/2013 12:12:44 AM	10079
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 12:39:02 AM	R14452
Surr: BFB	95.0	51.5-151		%REC	1	10/31/2013 12:39:02 AM	R14452
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/31/2013 12:39:02 AM	R14452
Toluene	ND	1.0		µg/L	1	10/31/2013 12:39:02 AM	R14452
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 12:39:02 AM	R14452
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 12:39:02 AM	R14452
Surr: 4-Bromofluorobenzene	103	85-136		%REC	1	10/31/2013 12:39:02 AM	R14452

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-012 **Matrix:** AQUEOUS

Client Sample ID: MW-53
Collection Date: 10/24/2013 1:40:00 PM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 12:34:37 AM	10079
Surr: DNOP	120	70.1-140		%REC	1	10/31/2013 12:34:37 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 1:09:14 AM	R14452
Surr: BFB	95.6	51.5-151		%REC	1	10/31/2013 1:09:14 AM	R14452
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 1:09:14 AM	R14452
Toluene	ND	1.0		µg/L	1	10/31/2013 1:09:14 AM	R14452
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 1:09:14 AM	R14452
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 1:09:14 AM	R14452
Surr: 4-Bromofluorobenzene	103	85-136		%REC	1	10/31/2013 1:09:14 AM	R14452

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-38
Project: Largo Compressor Station
Collection Date: 10/24/2013 2:35:00 PM
Lab ID: 1310D53-013 **Matrix:** AQUEOUS **Received Date:** 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 12:56:21 AM	10079
Surr: DNOP	121	70.1-140		%REC	1	10/31/2013 12:56:21 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 1:39:27 AM	R14452
Surr: BFB	95.5	51.5-151		%REC	1	10/31/2013 1:39:27 AM	R14452
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 1:39:27 AM	R14452
Toluene	ND	1.0		µg/L	1	10/31/2013 1:39:27 AM	R14452
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 1:39:27 AM	R14452
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 1:39:27 AM	R14452
Surr: 4-Bromofluorobenzene	102	85-136		%REC	1	10/31/2013 1:39:27 AM	R14452

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-9
Project: Largo Compressor Station
Collection Date: 10/24/2013 3:25:00 PM
Lab ID: 1310D53-014 **Matrix:** AQUEOUS **Received Date:** 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 1:18:08 AM	10079
Surr: DNOP	122	70.1-140		%REC	1	10/31/2013 1:18:08 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 2:09:31 AM	R14452
Surr: BFB	94.7	51.5-151		%REC	1	10/31/2013 2:09:31 AM	R14452
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 2:09:31 AM	R14452
Toluene	ND	1.0		µg/L	1	10/31/2013 2:09:31 AM	R14452
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 2:09:31 AM	R14452
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 2:09:31 AM	R14452
Surr: 4-Bromofluorobenzene	101	85-136		%REC	1	10/31/2013 2:09:31 AM	R14452

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-6
Project: Largo Compressor Station
Collection Date: 10/24/2013 4:20:00 PM
Lab ID: 1310D53-015 **Matrix:** AQUEOUS **Received Date:** 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 1:39:47 AM	10079
Surr: DNOP	119	70.1-140		%REC	1	10/31/2013 1:39:47 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 2:39:39 AM	R14452
Surr: BFB	95.0	51.5-151		%REC	1	10/31/2013 2:39:39 AM	R14452
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 2:39:39 AM	R14452
Toluene	ND	1.0		µg/L	1	10/31/2013 2:39:39 AM	R14452
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 2:39:39 AM	R14452
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 2:39:39 AM	R14452
Surr: 4-Bromofluorobenzene	100	85-136		%REC	1	10/31/2013 2:39:39 AM	R14452

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-3R
Project: Largo Compressor Station
Collection Date: 10/24/2013 5:05:00 PM
Lab ID: 1310D53-016 **Matrix:** AQUEOUS **Received Date:** 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 2:01:35 AM	10079
Surr: DNOP	119	70.1-140		%REC	1	10/31/2013 2:01:35 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 3:09:52 AM	R14452
Surr: BFB	96.4	51.5-151		%REC	1	10/31/2013 3:09:52 AM	R14452
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 3:09:52 AM	R14452
Toluene	ND	1.0		µg/L	1	10/31/2013 3:09:52 AM	R14452
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 3:09:52 AM	R14452
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 3:09:52 AM	R14452
Surr: 4-Bromofluorobenzene	102	85-136		%REC	1	10/31/2013 3:09:52 AM	R14452

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-47
Project: Largo Compressor Station
Collection Date: 10/24/2013 5:55:00 PM
Lab ID: 1310D53-017
Matrix: AQUEOUS
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	4.7	1.0		mg/L	1	10/31/2013 2:23:12 AM	10079
Surr: DNOP	114	70.1-140		%REC	1	10/31/2013 2:23:12 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	9.1	0.25		mg/L	5	10/31/2013 3:40:09 AM	R14452
Surr: BFB	496	51.5-151	S	%REC	5	10/31/2013 3:40:09 AM	R14452
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	190	5.0		µg/L	5	10/31/2013 3:40:09 AM	R14452
Toluene	ND	5.0		µg/L	5	10/31/2013 3:40:09 AM	R14452
Ethylbenzene	8.9	5.0		µg/L	5	10/31/2013 3:40:09 AM	R14452
Xylenes, Total	ND	10		µg/L	5	10/31/2013 3:40:09 AM	R14452
Surr: 4-Bromofluorobenzene	165	85-136	S	%REC	5	10/31/2013 3:40:09 AM	R14452

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-018 **Matrix:** AQUEOUS

Client Sample ID: MW-15
Collection Date: 10/24/2013 6:55:00 PM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 2:45:02 AM	10079
Surr: DNOP	120	70.1-140		%REC	1	10/31/2013 2:45:02 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 3:05:04 PM	R14497
Surr: BFB	98.1	51.5-151		%REC	1	10/31/2013 3:05:04 PM	R14497
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 3:05:04 PM	R14497
Toluene	ND	1.0		µg/L	1	10/31/2013 3:05:04 PM	R14497
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 3:05:04 PM	R14497
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 3:05:04 PM	R14497
Surr: 4-Bromofluorobenzene	104	85-136		%REC	1	10/31/2013 3:05:04 PM	R14497

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
O	RSD is greater than RSDlimit
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
P	Sample pH greater than 2 for VOA and TOC only.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-40R
Project: Largo Compressor Station
Collection Date: 10/23/2013 10:40:00 AM
Lab ID: 1310D53-019 **Matrix:** AQUEOUS **Received Date:** 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 3:06:57 AM	10079
Surr: DNOP	119	70.1-140		%REC	1	10/31/2013 3:06:57 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 4:36:06 PM	R14497
Surr: BFB	94.3	51.5-151		%REC	1	10/31/2013 4:36:06 PM	R14497
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 4:36:06 PM	R14497
Toluene	ND	1.0		µg/L	1	10/31/2013 4:36:06 PM	R14497
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 4:36:06 PM	R14497
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 4:36:06 PM	R14497
Surr: 4-Bromofluorobenzene	103	85-136		%REC	1	10/31/2013 4:36:06 PM	R14497

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-020 **Matrix:** AQUEOUS

Client Sample ID: MW-50
Collection Date: 10/23/2013 11:30:00 AM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 3:28:59 AM	10079
Surr: DNOP	113	70.1-140		%REC	1	10/31/2013 3:28:59 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 6:07:01 PM	R14497
Surr: BFB	95.6	51.5-151		%REC	1	10/31/2013 6:07:01 PM	R14497
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 6:07:01 PM	R14497
Toluene	ND	1.0		µg/L	1	10/31/2013 6:07:01 PM	R14497
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 6:07:01 PM	R14497
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 6:07:01 PM	R14497
Surr: 4-Bromofluorobenzene	104	85-136		%REC	1	10/31/2013 6:07:01 PM	R14497

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-51
Project: Largo Compressor Station
Collection Date: 10/23/2013 1:20:00 PM
Lab ID: 1310D53-021
Matrix: AQUEOUS
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 4:13:14 AM	10079
Surr: DNOP	111	70.1-140		%REC	1	10/31/2013 4:13:14 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.066	0.050		mg/L	1	10/31/2013 6:37:23 PM	R14497
Surr: BFB	96.9	51.5-151		%REC	1	10/31/2013 6:37:23 PM	R14497
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	8.2	1.0		µg/L	1	10/31/2013 6:37:23 PM	R14497
Toluene	ND	1.0		µg/L	1	10/31/2013 6:37:23 PM	R14497
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 6:37:23 PM	R14497
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 6:37:23 PM	R14497
Surr: 4-Bromofluorobenzene	100	85-136		%REC	1	10/31/2013 6:37:23 PM	R14497

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-39
Project: Largo Compressor Station
Collection Date: 10/23/2013 2:30:00 PM
Lab ID: 1310D53-022
Matrix: AQUEOUS
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 4:35:21 AM	10079
Surr: DNOP	109	70.1-140		%REC	1	10/31/2013 4:35:21 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.11	0.050		mg/L	1	10/31/2013 9:08:11 PM	R14497
Surr: BFB	95.4	51.5-151		%REC	1	10/31/2013 9:08:11 PM	R14497
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	18	1.0		µg/L	1	10/31/2013 9:08:11 PM	R14497
Toluene	ND	1.0		µg/L	1	10/31/2013 9:08:11 PM	R14497
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 9:08:11 PM	R14497
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 9:08:11 PM	R14497
Surr: 4-Bromofluorobenzene	105	85-136		%REC	1	10/31/2013 9:08:11 PM	R14497

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-41
Project: Largo Compressor Station
Collection Date: 10/23/2013 3:35:00 PM
Lab ID: 1310D53-023 **Matrix:** AQUEOUS **Received Date:** 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 4:57:32 AM	10079
Surr: DNOP	112	70.1-140		%REC	1	10/31/2013 4:57:32 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 9:38:28 PM	R14497
Surr: BFB	95.6	51.5-151		%REC	1	10/31/2013 9:38:28 PM	R14497
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 9:38:28 PM	R14497
Toluene	ND	1.0		µg/L	1	10/31/2013 9:38:28 PM	R14497
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 9:38:28 PM	R14497
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 9:38:28 PM	R14497
Surr: 4-Bromofluorobenzene	102	85-136		%REC	1	10/31/2013 9:38:28 PM	R14497

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-75
Project: Largo Compressor Station
Collection Date: 10/23/2013 4:30:00 PM
Lab ID: 1310D53-024
Matrix: AQUEOUS
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 5:19:44 AM	10079
Surr: DNOP	116	70.1-140		%REC	1	10/31/2013 5:19:44 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 10:08:39 PM	R14497
Surr: BFB	89.4	51.5-151		%REC	1	10/31/2013 10:08:39 PM	R14497
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 10:08:39 PM	R14497
Toluene	ND	1.0		µg/L	1	10/31/2013 10:08:39 PM	R14497
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 10:08:39 PM	R14497
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 10:08:39 PM	R14497
Surr: 4-Bromofluorobenzene	92.6	85-136		%REC	1	10/31/2013 10:08:39 PM	R14497

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-025 **Matrix:** AQUEOUS

Client Sample ID: MW-80
Collection Date: 10/23/2013 4:55:00 PM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 5:42:02 AM	10079
Surr: DNOP	113	70.1-140		%REC	1	10/31/2013 5:42:02 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 10:38:52 PM	R14497
Surr: BFB	96.3	51.5-151		%REC	1	10/31/2013 10:38:52 PM	R14497
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	10/31/2013 10:38:52 PM	R14497
Toluene	ND	1.0		µg/L	1	10/31/2013 10:38:52 PM	R14497
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 10:38:52 PM	R14497
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 10:38:52 PM	R14497
Surr: 4-Bromofluorobenzene	101	85-136		%REC	1	10/31/2013 10:38:52 PM	R14497

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
O	RSD is greater than RSDlimit
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
P	Sample pH greater than 2 for VOA and TOC only.
RL	Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-026 **Matrix:** AQUEOUS

Client Sample ID: MW-79
Collection Date: 10/23/2013 5:10:00 PM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 10:18:17 AM	10079
Surr: DNOP	110	70.1-140		%REC	1	10/31/2013 10:18:17 AM	10079
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 11:08:58 PM	R14497
Surr: BFB	96.4	51.5-151		%REC	1	10/31/2013 11:08:58 PM	R14497
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/31/2013 11:08:58 PM	R14497
Toluene	ND	1.0		µg/L	1	10/31/2013 11:08:58 PM	R14497
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 11:08:58 PM	R14497
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 11:08:58 PM	R14497
Surr: 4-Bromofluorobenzene	102	85-136		%REC	1	10/31/2013 11:08:58 PM	R14497

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-77
Project: Largo Compressor Station
Collection Date: 10/23/2013 5:25:00 PM
Lab ID: 1310D53-027
Matrix: AQUEOUS
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 10:40:24 AM	10079
Surr: DNOP	107	70.1-140		%REC	1	10/31/2013 10:40:24 AM	10079
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	10/31/2013 11:39:05 PM	R14497
Surr: BFB	98.1	51.5-151		%REC	1	10/31/2013 11:39:05 PM	R14497
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	10/31/2013 11:39:05 PM	R14497
Toluene	ND	1.0		µg/L	1	10/31/2013 11:39:05 PM	R14497
Ethylbenzene	ND	1.0		µg/L	1	10/31/2013 11:39:05 PM	R14497
Xylenes, Total	ND	2.0		µg/L	1	10/31/2013 11:39:05 PM	R14497
Surr: 4-Bromofluorobenzene	102	85-136		%REC	1	10/31/2013 11:39:05 PM	R14497

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo Compressor Station
Lab ID: 1310D53-028 **Matrix:** AQUEOUS

Client Sample ID: MW-43
Collection Date: 10/24/2013 8:25:00 AM
Received Date: 10/29/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/31/2013 6:48:41 AM	10079
Surr: DNOP	104	70.1-140		%REC	1	10/31/2013 6:48:41 AM	10079
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.25		mg/L	5	11/1/2013 12:09:10 AM	R14497
Surr: BFB	94.4	51.5-151		%REC	5	11/1/2013 12:09:10 AM	R14497
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	5.0		µg/L	5	11/1/2013 12:09:10 AM	R14497
Toluene	ND	5.0		µg/L	5	11/1/2013 12:09:10 AM	R14497
Ethylbenzene	ND	5.0		µg/L	5	11/1/2013 12:09:10 AM	R14497
Xylenes, Total	ND	10		µg/L	5	11/1/2013 12:09:10 AM	R14497
Surr: 4-Bromofluorobenzene	99.7	85-136		%REC	5	11/1/2013 12:09:10 AM	R14497

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
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#: **1310D53**

04-Nov-13

Client: Southwest Geoscience

Project: Largo Compressor Station

Sample ID **MB-10098**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **PBW**	Batch ID: **10098**	RunNo: **14432**							
Prep Date: **10/30/2013**	Analysis Date: **10/30/2013**	SeqNo: **415120**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.2		1.000		115	70.1	140			

Sample ID **LCS-10098**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **LCSW**	Batch ID: **10098**	RunNo: **14432**							
Prep Date: **10/30/2013**	Analysis Date: **10/30/2013**	SeqNo: **415196**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.7	1.0	5.000	0	113	73.3	145			
Surr: DNOP	0.55		0.5000		111	70.1	140			

Sample ID **LCSD-10098**	SampType: **LCSD**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **LCSS02**	Batch ID: **10098**	RunNo: **14432**							
Prep Date: **10/30/2013**	Analysis Date: **10/30/2013**	SeqNo: **415197**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.0	1.0	5.000	0	120	73.3	145	5.65	20	
Surr: DNOP	0.57		0.5000		113	70.1	140	0	0	

Sample ID **MB-10079**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **PBW**	Batch ID: **10079**	RunNo: **14432**							
Prep Date: **10/29/2013**	Analysis Date: **10/30/2013**	SeqNo: **415223**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.2		1.000		118	70.1	140			

Sample ID **LCS-10079**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **LCSW**	Batch ID: **10079**	RunNo: **14432**							
Prep Date: **10/29/2013**	Analysis Date: **10/30/2013**	SeqNo: **415224**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.8	1.0	5.000	0	117	73.3	145			
Surr: DNOP	0.57		0.5000		114	70.1	140			

Sample ID **LCSD-10079**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **LCSW**	Batch ID: **10079**	RunNo: **14432**							
Prep Date: **10/29/2013**	Analysis Date: **10/30/2013**	SeqNo: **415241**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310D53**

04-Nov-13

Client: Southwest Geoscience

Project: Largo Compressor Station

Sample ID **LCSD-10079**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **LCSW**	Batch ID: **10079**	RunNo: **14432**
Prep Date: **10/29/2013**	Analysis Date: **10/30/2013**	SeqNo: **415241** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.2	1.0	5.000	0	125	73.3	145			
Surr: DNOP	0.55		0.5000		110	70.1	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310D53**

04-Nov-13

Client: Southwest Geoscience

Project: Largo Compressor Station

Sample ID **B23**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **R14452**	RunNo: **14452**
Prep Date:	Analysis Date: **10/30/2013**	SeqNo: **415573** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		92.9	51.5	151			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R14452**	RunNo: **14452**
Prep Date:	Analysis Date: **10/30/2013**	SeqNo: **415574** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.51	0.050	0.5000	0	101	80	120			
Surr: BFB	20		20.00		102	51.5	151			

Sample ID **1310D53-009AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-32**	Batch ID: **R14452**	RunNo: **14452**
Prep Date:	Analysis Date: **10/30/2013**	SeqNo: **415576** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	104	67.7	128			
Surr: BFB	21		20.00		105	51.5	151			

Sample ID **1310D53-009AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-32**	Batch ID: **R14452**	RunNo: **14452**
Prep Date:	Analysis Date: **10/30/2013**	SeqNo: **415577** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	99.0	67.7	128	4.50	20	
Surr: BFB	21		20.00		105	51.5	151	0	0	

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **R14466**	RunNo: **14466**
Prep Date:	Analysis Date: **10/30/2013**	SeqNo: **415629** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		96.5	51.5	151			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R14466**	RunNo: **14466**
Prep Date:	Analysis Date: **10/30/2013**	SeqNo: **415630** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310D53**

04-Nov-13

Client: Southwest Geoscience

Project: Largo Compressor Station

Sample ID	2.5UG GRO LCS	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSW	Batch ID:	R14466		RunNo:	14466				
Prep Date:		Analysis Date:	10/30/2013		SeqNo:	415630	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.52	0.050	0.5000	0	105	80	120			
Surr: BFB	21		20.00		104	51.5	151			

Sample ID	5ML RB	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBW	Batch ID:	R14497		RunNo:	14497				
Prep Date:		Analysis Date:	10/31/2013		SeqNo:	416401	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		92.8	51.5	151			

Sample ID	2.5UG GRO LCS	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSW	Batch ID:	R14497		RunNo:	14497				
Prep Date:		Analysis Date:	10/31/2013		SeqNo:	416402	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	100	80	120			
Surr: BFB	20		20.00		101	51.5	151			

Sample ID	1310D53-018AMS	SampType:	MS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	MW-15	Batch ID:	R14497		RunNo:	14497				
Prep Date:		Analysis Date:	10/31/2013		SeqNo:	416411	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.48	0.050	0.5000	0	95.8	67.7	128			
Surr: BFB	19		20.00		96.6	51.5	151			

Sample ID	1310D53-018AMSD	SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	MW-15	Batch ID:	R14497		RunNo:	14497				
Prep Date:		Analysis Date:	10/31/2013		SeqNo:	416412	Units:	mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.49	0.050	0.5000	0	97.0	67.7	128	1.24	20	
Surr: BFB	20		20.00		101	51.5	151	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310D53**

04-Nov-13

Client: Southwest Geoscience

Project: Largo Compressor Station

Sample ID **B23**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R14452**	RunNo: **14452**
Prep Date:	Analysis Date: **10/30/2013**	SeqNo: **415613** 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								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		101	85	136			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R14452**	RunNo: **14452**
Prep Date:	Analysis Date: **10/30/2013**	SeqNo: **415614** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.6	80	120			
Toluene	20	1.0	20.00	0	101	80	120			
Ethylbenzene	21	1.0	20.00	0	103	80	120			
Xylenes, Total	64	2.0	60.00	0	107	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		106	85	136			

Sample ID **1310D53-010AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-8**	Batch ID: **R14452**	RunNo: **14452**
Prep Date:	Analysis Date: **10/30/2013**	SeqNo: **415617** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	90.8	73.4	119			
Toluene	18	1.0	20.00	0.3620	90.5	80	120			
Ethylbenzene	19	1.0	20.00	0	92.9	80	120			
Xylenes, Total	59	2.0	60.00	0.8840	96.2	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		104	85	136			

Sample ID **1310D53-010AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-8**	Batch ID: **R14452**	RunNo: **14452**
Prep Date:	Analysis Date: **10/31/2013**	SeqNo: **415618** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.0	73.4	119	0.253	20	
Toluene	18	1.0	20.00	0.3620	90.4	80	120	0.141	20	
Ethylbenzene	19	1.0	20.00	0	93.6	80	120	0.740	20	
Xylenes, Total	58	2.0	60.00	0.8840	95.2	80	120	1.05	20	
Surr: 4-Bromofluorobenzene	21		20.00		106	85	136	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310D53**

04-Nov-13

Client: Southwest Geoscience

Project: Largo Compressor Station

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R14466**	RunNo: **14466**
Prep Date:	Analysis Date: **10/30/2013**	SeqNo: **415656** 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								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	23		20.00		115	85	136			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R14466**	RunNo: **14466**
Prep Date:	Analysis Date: **10/30/2013**	SeqNo: **415657** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.4	80	120			
Toluene	20	1.0	20.00	0	101	80	120			
Ethylbenzene	20	1.0	20.00	0	101	80	120			
Xylenes, Total	61	2.0	60.00	0	102	80	120			
Surr: 4-Bromofluorobenzene	24		20.00		122	85	136			

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R14497**	RunNo: **14497**
Prep Date:	Analysis Date: **10/31/2013**	SeqNo: **416431** 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								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		102	85	136			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R14497**	RunNo: **14497**
Prep Date:	Analysis Date: **10/31/2013**	SeqNo: **416432** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.2	80	120			
Toluene	18	1.0	20.00	0	92.0	80	120			
Ethylbenzene	19	1.0	20.00	0	94.2	80	120			
Xylenes, Total	58	2.0	60.00	0	96.0	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		103	85	136			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310D53**

04-Nov-13

Client: Southwest Geoscience

Project: Largo Compressor Station

Sample ID **1310D53-019AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-40R**	Batch ID: **R14497**	RunNo: **14497**
Prep Date:	Analysis Date: **10/31/2013**	SeqNo: **416441** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	15	1.0	20.00	0	73.9	73.4	119			
Toluene	15	1.0	20.00	0.3580	73.9	80	120			S
Ethylbenzene	16	1.0	20.00	0	77.9	80	120			S
Xylenes, Total	49	2.0	60.00	0.5680	80.9	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		106	85	136			

Sample ID **1310D53-019AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-40R**	Batch ID: **R14497**	RunNo: **14497**
Prep Date:	Analysis Date: **10/31/2013**	SeqNo: **416442** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	15	1.0	20.00	0	74.5	73.4	119	0.755	20	
Toluene	15	1.0	20.00	0.3580	73.4	80	120	0.769	20	S
Ethylbenzene	15	1.0	20.00	0	77.0	80	120	1.17	20	S
Xylenes, Total	49	2.0	60.00	0.5680	80.0	80	120	1.10	20	
Surr: 4-Bromofluorobenzene	21		20.00		107	85	136	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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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: Southwest Geoscience Work Order Number: 1310D53 RcptNo: 1

Received by/date: AM 10/29/13

Logged By: Lindsay Mangin 10/29/2013 10:00:00 AM

Completed By: Lindsay Mangin 10/29/2013 10:50:29 AM

Reviewed By: 10/30/13

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. 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)

16. 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: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE
Environmental & Hydrogeologic Consultants

Office Location: 606 Rio Grande, Aztec, NM 87410
Project Manager: K. Summers

Laboratory: Hall Laboratories
Address: Albuquerque, NM
Contact:
Phone:
PO/SO #: 04106002

Lab use only
Due Date:
Temp. of coolers when received (C°): 2.4
1 2 3 4 5
Page 3 of ~~4~~ 3 aB

Sampler's Name: Joseph Doyle
Sampler's Signature: Joseph Doyle

Proj. No.: 04106002
Project Name: Largo Compressor Station

ANALYSIS REQUESTED: BTEX - 8021; TPH - 8015 GRO/DRO

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	VOA	A/G 1 Lt	250 ml	P/O	BTEX - 8021	TPH - 8015 GRO/DRO	Lab Sample ID (Lab Use Only)
W	10/25/13	0820		X	MW-14			5				X	X	1310D53-001
W	10/25/13	0930		X	MW-76			5				X	X	-002
W	10/25/13	0935		X	MW-13			5				X	X	-003
W	10/25/13	0945		X	MW-34			5				X	X	-004
W	10/25/13	1040		X	MW-36			5				X	X	-005
W	10/25/13	1205		X	MW-49			5				X	X	-006
W	10/25/13	1320		X	MW-83			5				X	X	-007
~~W~~	~~10/ /13~~			~~X~~	~~MW-16~~			~~5~~				~~X~~	~~X~~	~~-008~~ aB
~~W~~	~~10/ /13~~			~~X~~	~~MW-52~~			~~5~~				~~X~~	~~X~~	aB
W	10/25/13	1500		X	MW-~~4~~7 50			5				X	X	-008

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

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Joseph Doyle	10/25/13	1300	[signature]	10/25/13	1500
[signature]	10/28/13	0645	[signature]	10/28/13	0645
[signature]	10/28/13	0800	C Mestlerwhite	10/28/13	800
[signature]	10/29/13	1030	[signature]	10/29/13	1000

NOTES:

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

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE
Environmental & Hydrogeologic Consultants

Office Location 606 Rio Grande
Aztec, NM 87410
Project Manager K. Summers

Laboratory: Hall Laboratories
Address: Albuquerque, NM
Contact:
Phone:
PO/SO #: 04106-002

Lab use only
Due Date:
Temp. of coolers when received (C°): 2.4
1 | 2 | 3 | 4 | 5
Page 2 of 43
QB

Sampler's Name: Joseph Doyle
Sampler's Signature: Joseph Doyle

Proj. No.: 04106002
Project Name: Large Compressor Station

ANALYSIS REQUESTED: BTEX - 8021; TPH - 8015 GRO/DRO

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	P/O	Lab Sample ID (Lab Use Only)
W	10/24/13	0925		X	MW-32			5				1310D53-009
W	10/24/13	1025		X	MW-8			5				-010
W	10/24/13	1235		X	MW-54			5				-011
W	10/24/13	1340		X	MW-53			5				-012
W	10/24/13	1435		X	MW-38			5				-013
W	10/24/13	1525		X	MW-9			5				-014
W	10/24/13	1620		X	MW-6			5				-015
W	10/24/13	1705		X	MW-3R			5				-016
W	10/24/13	1755		X	MW-47			5				-017
W	10/24/13	1855		X	MW-15			5				-018

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

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Joseph Doyle	10/25/13	1300		10/25/13	1300
	10/28/13	0645		10/28/13	0645
	10/28/13	0800		10/28/13	800
	10/29/13	1637		10/29/13	1000

NOTES:

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

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE
Environmental & Hydrogeologic Consultants

Office Location: 606 Rio Grande, Aztec, NM 87410
Project Manager: K. Summers

Laboratory: Hall Laboratories
Address: Albuquerque, NM
Contact:
Phone:
PO/SO #: 0410G002

Lab use only
Due Date:
Temp. of coolers when received (C°): 2.4
1 | 2 | 3 | 4 | 5
Page 1 of 3

Sampler's Name: Joseph Doyle
Sampler's Signature: Joseph Doyle

Proj. No.: 0410G002
Project Name: Large Compressor Station

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	P/O	ANALYSIS REQUESTED: BTEX - 8021	TPH - 8015 GRO/DRO	Lab Sample ID (Lab Use Only)
W	10/23/13	1040		X	MW-40R			5				X	X	1310553-019
W	10/23/13	1130		X	MW-50			5				X	X	-020
W	10/23/13	1320		X	MW-51			5				X	X	-021
W	10/23/13	1430		X	MW-39			5				X	X	-022
W	10/23/13	1535		X	MW-41			5				X	X	-023
W	10/23/13	1630		X	MW-75			5				X	X	-024
W	10/23/13	1655		X	MW-80			5				X	X	-025
W	10/23/13	1710		X	MW-79			5				X	X	-026
W	10/23/13	1725		X	MW-77			5				X	X	-027
W	10/24/13	0825		X	MW-43			5				X	X	-028

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

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Joseph Doyle	10/25/13	1300		10/25/13	1300
	10/25/13	0645		10/26/13	0644
	10/28/13	0800		10/28/13	800
	10/29/13	1637		10/29/13	1000

NOTES:

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

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

November 08, 2013

Kyle Summers
Southwest Geoscience
606 S. Rio Grande Unit A
Aztec, NM 87410
TEL: (903) 821-5603
FAX (214) 350-2914

RE: Largo CS OrderNo.: 1310E88

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 10/31/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1310E88**
Date Reported: **11/8/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-16
Project: Largo CS
Collection Date: 10/28/2013 4:50:00 PM
Lab ID: 1310E88-001 **Matrix:** AQUEOUS **Received Date:** 10/31/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/1/2013 2:38:30 PM	10125
Surr: DNOP	132	70.1-140		%REC	1	11/1/2013 2:38:30 PM	10125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	0.052	0.050		mg/L	1	11/1/2013 3:30:59 PM	R14530
Surr: BFB	101	51.5-151		%REC	1	11/1/2013 3:30:59 PM	R14530
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	11	1.0		µg/L	1	11/1/2013 3:30:59 PM	R14530
Toluene	ND	1.0		µg/L	1	11/1/2013 3:30:59 PM	R14530
Ethylbenzene	1.2	1.0		µg/L	1	11/1/2013 3:30:59 PM	R14530
Xylenes, Total	ND	2.0		µg/L	1	11/1/2013 3:30:59 PM	R14530
Surr: 4-Bromofluorobenzene	106	85-136		%REC	1	11/1/2013 3:30:59 PM	R14530

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1310E88-002 **Matrix:** AQUEOUS

Client Sample ID: MW-37
Collection Date: 10/29/2013 9:40:00 AM
Received Date: 10/31/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	7.7	1.0		mg/L	1	11/1/2013 3:09:41 PM	10125
Surr: DNOP	109	70.1-140		%REC	1	11/1/2013 3:09:41 PM	10125
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	10	2.5		mg/L	50	11/1/2013 5:01:40 PM	R14530
Surr: BFB	113	51.5-151		%REC	50	11/1/2013 5:01:40 PM	R14530
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	580	50		µg/L	50	11/1/2013 5:01:40 PM	R14530
Toluene	170	50		µg/L	50	11/1/2013 5:01:40 PM	R14530
Ethylbenzene	150	50		µg/L	50	11/1/2013 5:01:40 PM	R14530
Xylenes, Total	610	100		µg/L	50	11/1/2013 5:01:40 PM	R14530
Surr: 4-Bromofluorobenzene	107	85-136		%REC	50	11/1/2013 5:01:40 PM	R14530

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-48
Project: Largo CS
Collection Date: 10/29/2013 11:25:00 AM
Lab ID: 1310E88-003
Matrix: AQUEOUS
Received Date: 10/31/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/1/2013 4:43:08 PM	10125
Surr: DNOP	119	70.1-140		%REC	1	11/1/2013 4:43:08 PM	10125
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.87	0.25		mg/L	5	11/1/2013 6:32:20 PM	R14530
Surr: BFB	118	51.5-151		%REC	5	11/1/2013 6:32:20 PM	R14530
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	67	5.0		µg/L	5	11/1/2013 6:32:20 PM	R14530
Toluene	ND	5.0		µg/L	5	11/1/2013 6:32:20 PM	R14530
Ethylbenzene	51	5.0		µg/L	5	11/1/2013 6:32:20 PM	R14530
Xylenes, Total	83	10		µg/L	5	11/1/2013 6:32:20 PM	R14530
Surr: 4-Bromofluorobenzene	116	85-136		%REC	5	11/1/2013 6:32:20 PM	R14530

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Client Sample ID: MW-52
Project: Largo CS
Collection Date: 10/29/2013 1:50:00 PM
Lab ID: 1310E88-004
Matrix: AQUEOUS
Received Date: 10/31/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE							Analyst: **BCN**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/1/2013 5:14:20 PM	10125
Surr: DNOP	111	70.1-140		%REC	1	11/1/2013 5:14:20 PM	10125
EPA METHOD 8015D: GASOLINE RANGE							Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/1/2013 9:03:11 PM	R14530
Surr: BFB	96.3	51.5-151		%REC	1	11/1/2013 9:03:11 PM	R14530
EPA METHOD 8021B: VOLATILES							Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	11/1/2013 9:03:11 PM	R14530
Toluene	ND	1.0		µg/L	1	11/1/2013 9:03:11 PM	R14530
Ethylbenzene	ND	1.0		µg/L	1	11/1/2013 9:03:11 PM	R14530
Xylenes, Total	ND	2.0		µg/L	1	11/1/2013 9:03:11 PM	R14530
Surr: 4-Bromofluorobenzene	106	85-136		%REC	1	11/1/2013 9:03:11 PM	R14530

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
O	RSD is greater than RSDlimit
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
P	Sample pH greater than 2 for VOA and TOC only.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience
Project: Largo CS
Lab ID: 1310E88-005 **Matrix:** AQUEOUS

Client Sample ID: MW-55
Collection Date: 10/29/2013 12:55:00 PM
Received Date: 10/31/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/1/2013 5:45:14 PM	10125
Surr: DNOP	129	70.1-140		%REC	1	11/1/2013 5:45:14 PM	10125
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/1/2013 9:33:22 PM	R14530
Surr: BFB	95.4	51.5-151		%REC	1	11/1/2013 9:33:22 PM	R14530
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	11/1/2013 9:33:22 PM	R14530
Toluene	ND	1.0		µg/L	1	11/1/2013 9:33:22 PM	R14530
Ethylbenzene	1.4	1.0		µg/L	1	11/1/2013 9:33:22 PM	R14530
Xylenes, Total	ND	2.0		µg/L	1	11/1/2013 9:33:22 PM	R14530
Surr: 4-Bromofluorobenzene	104	85-136		%REC	1	11/1/2013 9:33:22 PM	R14530

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	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
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310E88**

08-Nov-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID **LCS-10125**	SampType: **LCS**			TestCode: **EPA Method 8015D: Diesel Range**					
Client ID: **LCSW**	Batch ID: **10125**			RunNo: **14513**					
Prep Date: **10/31/2013**	Analysis Date: **11/1/2013**			SeqNo: **417079**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.8	1.0	5.000	0	75.3	73.3	145			
Surr: DNOP	0.38		0.5000		75.4	70.1	140			

Sample ID **MB-10125**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Diesel Range**					
Client ID: **PBW**	Batch ID: **10125**			RunNo: **14513**					
Prep Date: **10/31/2013**	Analysis Date: **11/1/2013**			SeqNo: **417080**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.0		1.000		104	70.1	140			

Sample ID **LCSD-10125**	SampType: **LCSD**			TestCode: **EPA Method 8015D: Diesel Range**					
Client ID: **LCSS02**	Batch ID: **10125**			RunNo: **14513**					
Prep Date: **10/31/2013**	Analysis Date: **11/1/2013**			SeqNo: **417363**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	3.9	1.0	5.000	0	77.6	73.3	145	3.05	20	
Surr: DNOP	0.36		0.5000		72.3	70.1	140	0	0	

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310E88**

08-Nov-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **R14530**	RunNo: **14530**
Prep Date:	Analysis Date: **11/1/2013**	SeqNo: **417463** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	19		20.00		95.0	51.5	151			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R14530**	RunNo: **14530**
Prep Date:	Analysis Date: **11/1/2013**	SeqNo: **417464** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	101	80	120			
Surr: BFB	20		20.00		101	51.5	151			

Sample ID **1310E88-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-16**	Batch ID: **R14530**	RunNo: **14530**
Prep Date:	Analysis Date: **11/1/2013**	SeqNo: **417473** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.56	0.050	0.5000	0.05220	102	67.7	128			
Surr: BFB	22		20.00		108	51.5	151			

Sample ID **1310E88-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-16**	Batch ID: **R14530**	RunNo: **14530**
Prep Date:	Analysis Date: **11/1/2013**	SeqNo: **417474** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.55	0.050	0.5000	0.05220	98.8	67.7	128	2.81	20	
Surr: BFB	22		20.00		109	51.5	151	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1310E88**

08-Nov-13

Client: Southwest Geoscience

Project: Largo CS

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R14530**	RunNo: **14530**
Prep Date:	Analysis Date: **11/1/2013**	SeqNo: **417482** 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								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	21		20.00		105	85	136			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R14530**	RunNo: **14530**
Prep Date:	Analysis Date: **11/1/2013**	SeqNo: **417483** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	103	80	120			
Toluene	21	1.0	20.00	0	104	80	120			
Ethylbenzene	21	1.0	20.00	0	104	80	120			
Xylenes, Total	64	2.0	60.00	0	107	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		108	85	136			

Sample ID **1310E88-002AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-37**	Batch ID: **R14530**	RunNo: **14530**
Prep Date:	Analysis Date: **11/1/2013**	SeqNo: **417494** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1500	50	1000	580.5	95.5	73.4	119			
Toluene	1100	50	1000	166.0	97.1	80	120			
Ethylbenzene	1100	50	1000	150.3	98.3	80	120			
Xylenes, Total	3600	100	3000	612.8	98.6	80	120			
Surr: 4-Bromofluorobenzene	1100		1000		108	85	136			

Sample ID **1310E88-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **MW-37**	Batch ID: **R14530**	RunNo: **14530**
Prep Date:	Analysis Date: **11/1/2013**	SeqNo: **417495** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1600	50	1000	580.5	101	73.4	119	3.27	20	
Toluene	1200	50	1000	166.0	101	80	120	3.80	20	
Ethylbenzene	1200	50	1000	150.3	102	80	120	3.06	20	
Xylenes, Total	3700	100	3000	612.8	101	80	120	2.18	20	
Surr: 4-Bromofluorobenzene	1000		1000		101	85	136	0	0	

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2 for VOA and TOC only.
- 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: Southwest Geoscience Work Order Number: 1310E88 RcptNo: 1

Received by/date: LM 10/31/2013

Logged By: Ashley Gallegos 10/31/2013 10:00:00 AM

Completed By: Ashley Gallegos 10/31/2013 3:05:02 PM

Reviewed By: MJ 11/01/13

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. 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)

16. 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: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE
Environmental & Hydrogeologic Consultants

Office Location: AZTEC NM
Project Manager: KYLE SUMMERS

Laboratory: HALL
Address: ABQ
Contact: ANDY FREEMAN
Phone:
PO/SO #: 04106002

Sampler's Name: AARON BRYANT
Sampler's Signature:

Lab use only
Due Date:
Temp. of coolers when received (C°): 2.4
1 | 2 | 3 | 4 | 5
Page 1 of 1

Proj. No.: 04106002
Project Name: LARGO CS

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	P/O	ANALYSIS REQUESTED: BTEX 8021	TPH 8015 DRO/GRO	Lab Sample ID (Lab Use Only)
W	10-28-13	1650		X	MW-16			5				X	X	1310E88-001
W	10-29-13	0940		X	MW-37			5				X	X	-002
W	10-29-13	1125		X	MW-48			5				X	X	-003
W	10-29-13	1350		X	MW-52			5				X	X	-004
W	10-29-13	1255		X	MW-55			5				X	X	-005

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

Relinquished by (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	10/30/13	0624		10/30/13	0624
	10/30/13	1541	Matthew Walker	10/30/13	1541
Matthew Walker	10/30/13	1721		10/31/13	1000

NOTES:

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