GW-211

Q4 2012 Sampling Report

Date: 11/13/2013

OIL CONS. DIV DIST. 3 NOV 2 9 2012

QUARTERLY GROUNDWATER MONITORING REPORT (October 2012 Sampling Event)

GROUNDWATER DISCHARGE PLAN GW-211

Property:

LARGO COMPRESSOR STATION Section 15, Township 26N, Range 7W Rio Arriba County, New Mexico SWG Project No. 0410002 November 13, 2012

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QUARTERLY GROUNDWATER MONITORING REPORT (October 2012 Sampling Event) GROUNDWATER DISCHARGE PLAN GW-211

LARGO COMPRESSOR STATION Section 15, Township 26N, Range 7W Rio Arriba County, New Mexico

SWG Project No. 0410002

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, an out-of-service condensate storage tank battery, which includes six (6) condensate storage tanks and two (2) below-grade drain tanks, 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:

Area 1(Condensate Storage Tank Area)

Area 1 is defined as the northwestern portion of the Site and includes the out-of-service 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) (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 treated and 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 event 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. 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

A quarterly groundwater sampling event was conducted between October 16th and October 19th, 2012 by Kyle Summers, a SWG environmental professional.

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 LNAPL were not sampled.

Each monitoring well was micro-purged utilizing low-flow sampling techniques. Lowflow 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 groundwater sample was collected from each monitoring well that did not 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, 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 event were analyzed for total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) utilizing EPA method SW-846#8015M, and benzene, toluene, ethylbenzene and xylenes (BTEX) utilizing EPA method SW-846#8021B. Additionally, groundwater samples were collected from monitoring wells MW-6, MW-38, MW-40R, MW-43, and MW-52 for laboratory analysis of Total Dissolved Solids (TDS). In accordance with method protocol (SM2540C Modified), the TDS sample containers contained no chemical preservative, while the containers containing the samples for organic analyses were pre-preserved with HgCl₂.

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	24	SW-846# 8015M
BTEX	Groundwater	24	SW-846# 8021B
TDS	Groundwater	6	SM2540C Mod

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. The groundwater flow direction at the Site is generally towards the northwest, with a gradient that ranges from 0.002 ft/ft to 0.005 ft/ft across the Site.

Groundwater measurements collected during the most recent gauging event in October 2012 are presented with TOC elevations in Table 2, Appendix B. A groundwater gradient map for the October 2012 event is included as Figure 4 (Appendix A).

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 October 2012 sampling event to the New Mexico WQCC *Groundwater Quality Standards*; however, the New Mexico WQCC *Groundwater Quality Standards* may not be applicable since the initial groundwater-bearing unit would not be considered an "Underground Source of Drinking Water" in accordance with 19.15.30 NMAC *Remediation*. The results of the groundwater sample analyses are summarized in Table 1 of Appendix B.

Benzene, Toluene, Ethylbenzene, and Xylenes

Due to the presence of LNAPL hydrocarbons in association with the initial groundwaterbearing unit, monitoring wells MW-12, MW-33, MW-35, and MW-37 were not sampled during the completion of field activities. Monitoring well MW-42 was dry during the October 2012 groundwater sampling event.

The groundwater samples collected from monitoring wells MW-7, MW-11, MW-15, MW-16, MW-39, MW-48, and MW-51 exhibited benzene concentrations ranging from 13 µg/L to 8,200 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 laboratory RLs, which are equal to or below the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater sample collected from monitoring well MW-48 exhibited a toluene concentration of 580 μ g/L, which is below the WQCC *Groundwater Quality Standard* of 750 μ g/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-3R, MW-7, MW-11, MW-15, MW-16, MW-48, and MW-51 exhibited ethylbenzene concentrations ranging from 1.2 μ g/L to 150 μ g/L, which are below the WQCC *Groundwater Quality Standard* of 750 μ g/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 well MW-48 exhibited a xylene concentration of 1,700 µg/L, which exceeds the WQCC *Groundwater Quality Standard* of 620 µg/L. The groundwater samples collected from monitoring wells MW-3R, MW-7, MW-11, MW-15, MW-47, and MW-51 exhibited xylene concentrations ranging from 2.8 µg/L to 91 µg/L, which are 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 October 2012 exhibited TPH GRO concentrations ranging from <0.050 mg/L to 32 mg/L, and TPH DRO concentrations ranging from <1.0 mg/L to 2.5 mg/L. The highest GRO concentration during the October 2012 sampling event was observed in the groundwater sample from monitoring well MW-7 (32 mg/L) and the highest DRO concentration was also observed in the sample from MW-7 (2.5 mg/L).

Total Dissolved Solids

The TDS analyses performed on samples from six (6) of the unaffected monitoring wells demonstrated a wide variation in groundwater quality across the Site with TDS concentrations ranging from 3,000 mg/L to 30,200 mg/L. The only prior TDS sample that was collected at the Site came from upgradient monitoring well MW-42 (75,400 mg/L, March 2011) which is currently dry. Of the TDS samples collected to date, many of the elevated concentrations appear to be present at locations up- or cross-gradient to historical facility operations and known areas of impact, and are likely naturally occurring levels in those areas.

6.0 FINDINGS

During October 2012, SWG conducted a quarterly groundwater monitoring event 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, SWG gauged the depth to fluids in each monitoring well using an interface probe capable of detecting LNAPL. Monitoring wells MW-12, MW-33, MW-35, and MW-37 exhibited LNAPL and were not sampled. This is the first event that monitoring well MW-12 has exhibited LNAPL. Although the product thickness at MW-12 was minimal, the hydrocarbon odor was noticeable, and beads of apparent product were evident on the interface probe. The appearance of this small amount of NAPL is potentially the result of the flushing of soils by heavy rainfalls immediately following the recent removal of the condensate tanks and subsequent exposure of underlying soils.
- 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 October 2012 sampling event and was not sampled.
- The groundwater flow direction at the Site is generally towards the northwest, with a gradient that varies from 0.002 ft/ft and 0.005 ft/ft across the Site.

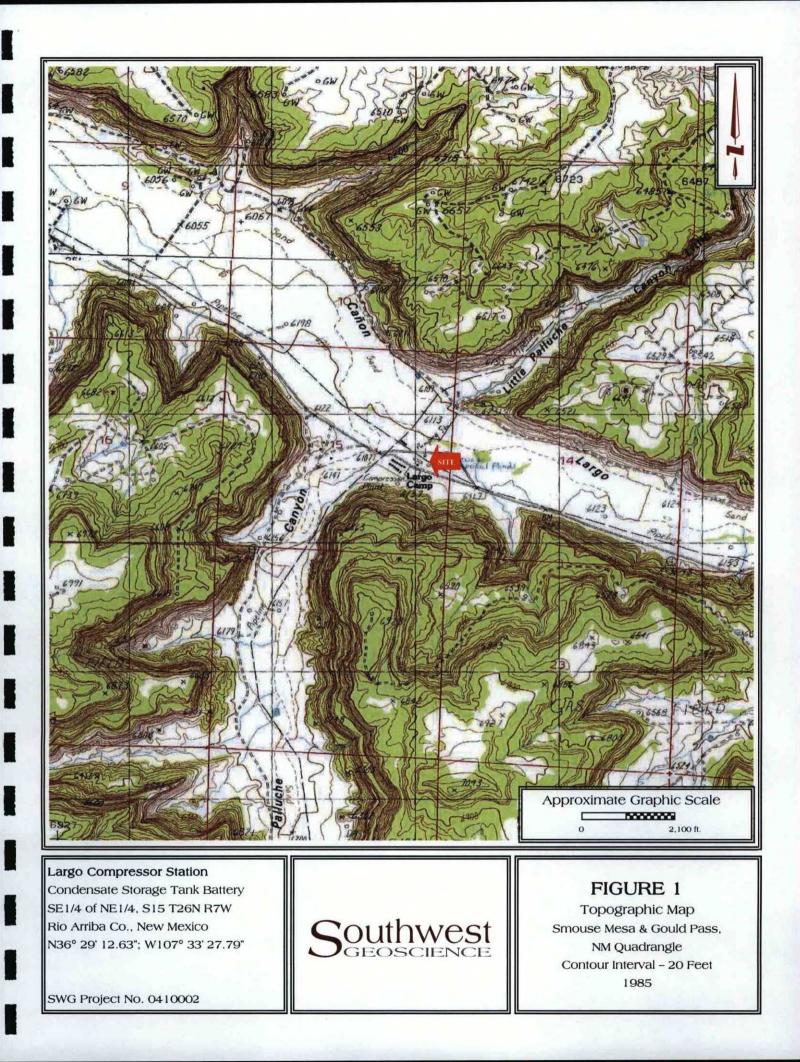


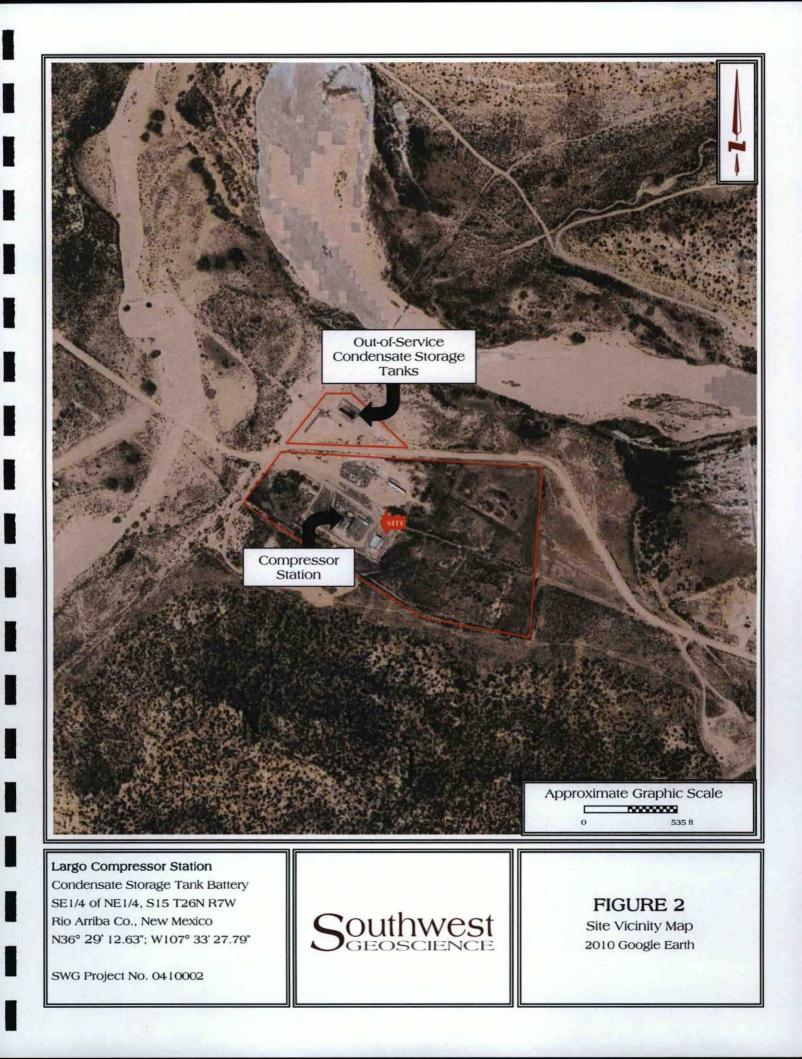
- The groundwater samples collected from monitoring wells MW-7, MW-11, MW-15, MW-16, MW-39, MW-48, and MW-51 exhibited benzene concentrations ranging from 13 µg/L to 8,200 µg/L, which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L. The analytical results from monitoring well MW-7 indicate an increase in the benzene concentration when compared to the July 2012 analytical data, but are still less than the January 2012 concentrations. This well has exhibited several spikes throughout the monitoring history of the site. Monitoring wells MW-11, MW-15, and MW-15 also exhibited benzene concentration increases that may be related to soil flushing by significant rains that occurred after the condensate tank removals. The analytical results from monitoring wells MW-39 and MW-51 exhibited declines from the July 2012 sampling event, and are likely related to seasonal water table elevation variations.
- The groundwater samples collected from the remaining monitoring wells did not exhibit BTEX constituent concentrations above the WQCC *Groundwater Quality Standards*.
- The seven (7) TDS samples collected to date from unaffected wells indicate concentrations across the Site range from 3,000 mg/L to 75,400 mg/L.

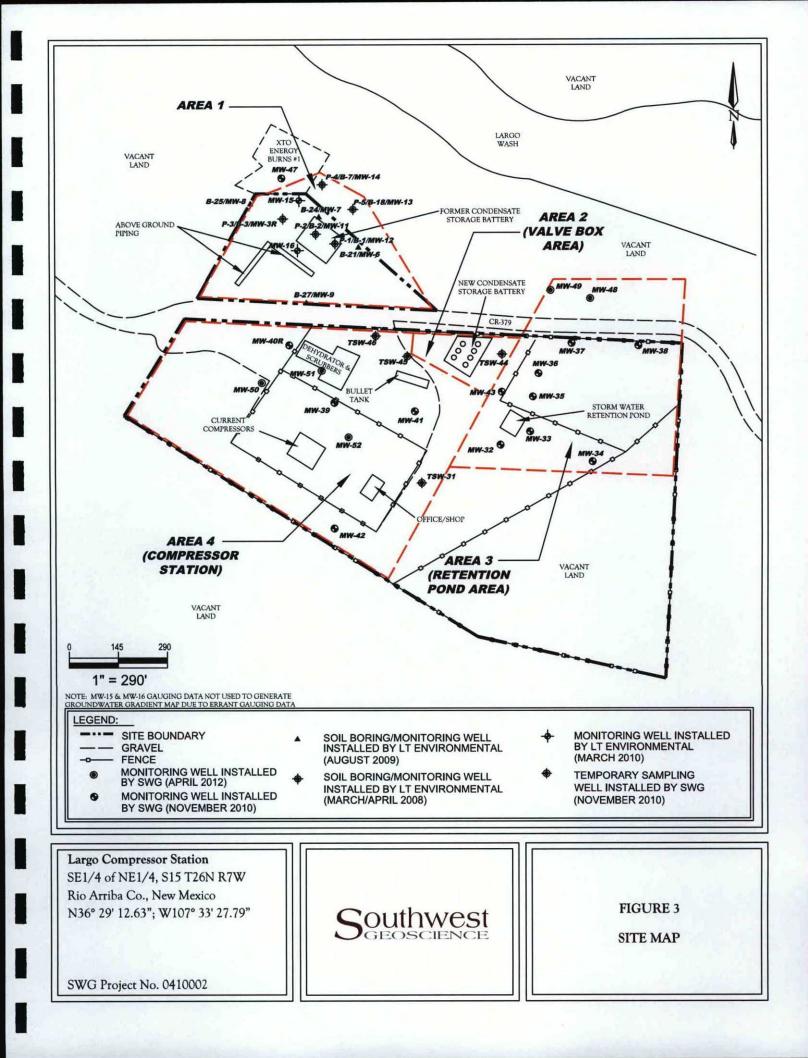
7.0 RECOMMENDATIONS

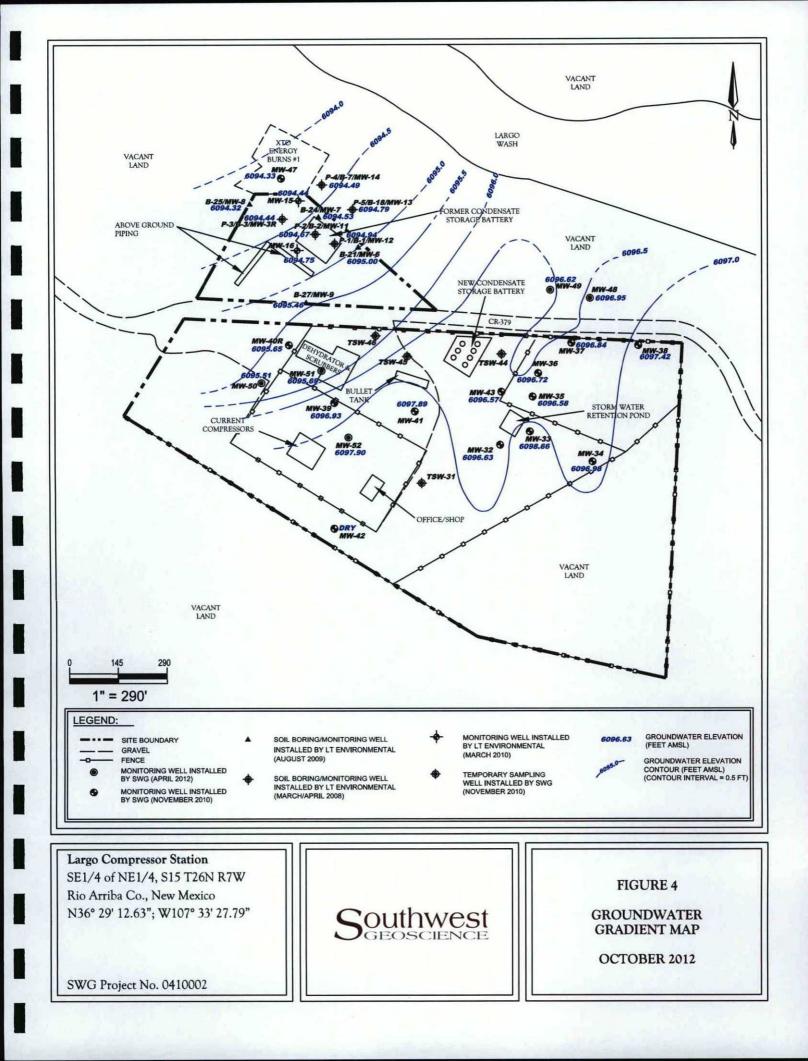
Based on the results of groundwater monitoring activities, SWG has the following recommendations:

- Report the groundwater monitoring results to the OCD;
- Perform Supplemental Site Investigation activities to further evaluate the extent of COCs in groundwater in the vicinity north of Area 3; and,
- Pursuant to the completion of supplemental site investigation activities, continue the evaluation and execution of corrective actions to: 1.) Remove LNAPL from groundwater at the Site to the extent practical; and 2.) Reduce the concentrations of COCs in soil to below the OCD *Remediation Action Levels* and groundwater to below the New Mexico WQCC *Groundwater Quality Standards*.









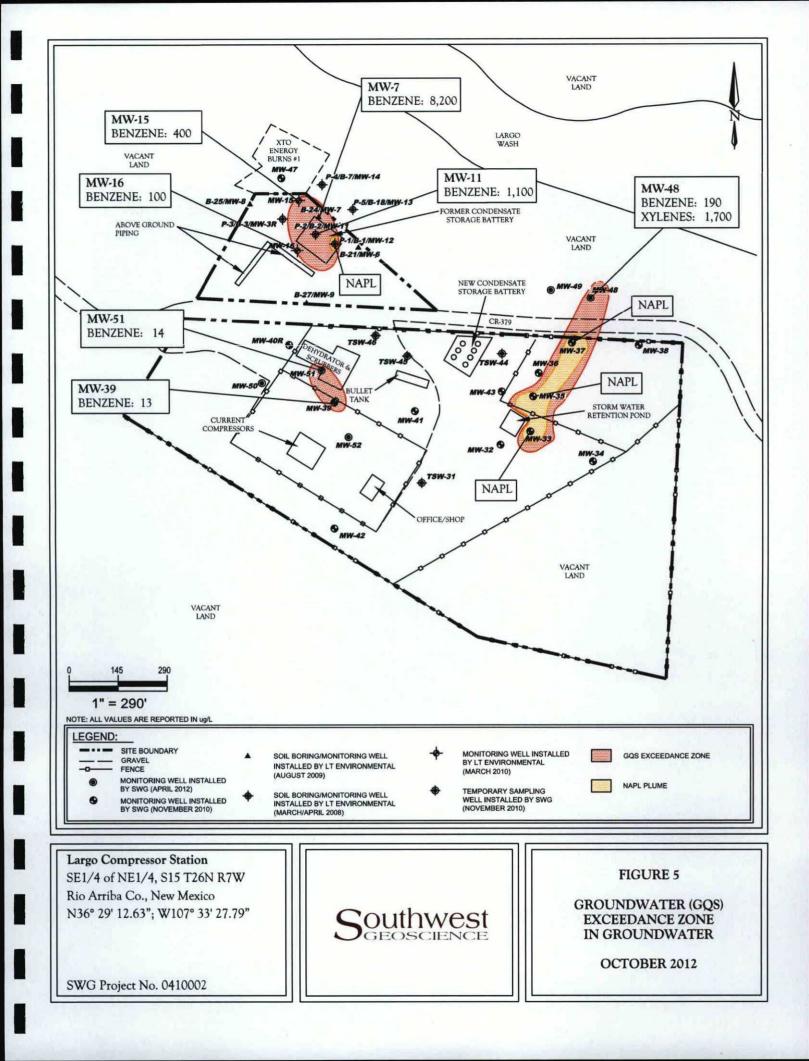


	TABLE 1 Largo Compressor Station GROUNDWATER ANALYTICAL SUMMARY										
Sample 1.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (ug/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)			
Commission Gr	er Quality Control oundwater Quality derds	NE	10	750	750	620	NE	NE			
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 P-5	11.24.09	NA NA	<1.0	<1.0	<1.0 <1.0	<2.0	NA	NA NA			
MW-13 (P-5*)	2.25.10 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 <0.05	<1.0			
MW-13 (P-5*) MW-13 (P-5*)	11.18.10 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*) MW-13 (P-5*)	1.30.12 4.19.12	NA NA	<1.0	<1.0	<1.0	<2.0 <2.0	<0.050 <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-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	NA NA			
MW-6 MW-6	2.25.10 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 MW-6	11.18.10	NA NA	<1.0 <1.0	<1.0	<1.0	<2.0	<0.05 <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 NA	<1.0	<1.0	<1.0	<2.0 <2.0	<0.050 <0.050	<1.0			
MW-6 MW-6	4.19.12 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-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 MW-7	2.25.10 4.05.10	NA NA	3,000 940	<10	40	31	NA 4.2	NA 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 MW-7	2.1.11 4.19.11	NA	1,800 250	<1.0	10	4.6	2.2 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 <20	32	6.1 4.5			
MW-7 MW-7	1.31.12 4.19.12	NA NA	9,000 790	<10	110	<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-8	8.10.09	NA	<1.0	<1.0	<1.0	<2.0	NA	NA			
MW-8 MW-8	11.24.09 2.25.10	NA NA	<1.0	<1.0	<1.0	<2.0 <2.0	NA NA	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 <0.05	<1.0			
MW-8 MW-8	11.18.10	NA NA	<1.0	<1.0	<1.0	<2.0 <2.0	<0.05	<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 NA	<1.0	<1.0	<1.0	<2.0	<0.050 <0.050	<1.0			
MW-8 MW-8	4.19.12 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			

TABLE I

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 (mg/L)	TPH DRO (mg/L	
Commission Gr	er Quality Control oundwater Quality	NE	10	750	750	620	NE	NE	
MW-9	dards 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 MW-9	4.05.10 5.27.10	NA NA	<1.0	<1.0	<1.0 <1.0	<2.0	<0.05 NA	<1.0 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 MW-9	1.31.11 4.19.11	NA NA	<1.0	<1.0	<1.0 <1.0	<2.0 <2.0	<0.050 <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 MW-9	1.27.12	NA	<1.0	<1.0 <1.0	<1.0	<2.0	<0.050 <0.050	<1.0	
MW-9 MW-9	4.19.12 7.31.12	NA 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-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 MW-15	7.13.10 8.26.10	NA NA	490	2.2 <1.0	7.2	15 <2.0	3.2 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 7.28.11	NA	13	<1.0	<1.0	<2.0 20	0.14 6.7	<1.0	
MW-15 MW-15	10.28.11	NA NA	810	<1.0	<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 MW-15	7.31.12 10.19.12	NA NA	64 400	<1.0	1.1 7.2	<2.0 7.8	0.22 2.0	<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 MW-16	8.26.10	NA	16 3.4	<1.0	<1.0	<2.0	0.095	<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 MW-16	10.27.11 1.30.12	NA NA	21	<1.0	<1.0	<2.0	0.19	<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	
TSW-31 MW-32	11.23.10	NA NA	<1.0	<1.0	<1.0	<2.0 <2.0	<0.050 <0.050	<1.0	
MW-32 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 <0.050	<1.0	
MW-32 MW-32	1.27.12 4.18.12	NA 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-33	1.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL NAPL	NAPI	
MW-33 MW-33	4.20.11 7.28.11	NA NA	NAPL NAPL	NAPL	NAPL NAPL	NAPL	NAPL	NAPI	
MW-33	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPI	
MW-33	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPI	
MW-33	4.18.12 7.30.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL NAPL	NAPL	
MW-33 MW-33	10.19.12	NA NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAPI	
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 MW-34	10.26.11	NA NA	<1.0	<1.0	<1.0 <1.0	<2.0	<0.050 <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	

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 (mg/L)	TPH DRC (mg/l		
New Mexico Wate Commission Gro Stand	undwater Quality	NE	10	750	750	620	NE	NE		
MW-35	1.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAP		
MW-35	4.20.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAP		
MW-35 MW-35	7.28.11	NA NA	NAPL	NAPL	NAPL	NAPL	NAPL NAPL	NAP NAP		
MW-35	1.27.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAP		
MW-35	4.18.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAP		
MW-35 MW-35	7.30.12	NA NA	NAPL	NAPL	NAPL	NAPL	NAPL NAPL	NAP		
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 MW-36	10.27.11	NA NA	<1.0	<1.0	<1.0	<2.0 <2.0	<0.050 <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	2.4.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0		
MW-37 MW-37	4.20.11	NA NA	3,100 2,500	6,200 3,600	500	7,000	38 34	4.2		
MW-37	7.28.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAP		
MW-37	10.26.11	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAP		
MW-37 MW-37	1.27.12 4.18.12	NA NA	NAPL	NAPL	NAPL	NAPL NAPL	NAPL NAPL	NAP		
MW-37	7.30.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAP		
MW-37	10.19.12	NA	NAPL	NAPL	NAPL	NAPL	NAPL	NAP		
MW-38	1.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0		
MW-38 MW-38	4.20.11 7.29.11	NA NA	<1.0	<1.0	<1.0	<2.0 <2.0	<0.050 <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 MW-38	4.18.12 7.30.12	NA NA	<1.0	<1.0	<1.0	<2.0 <2.0	<0.050 <0.050	<1.0		
MW-38 MW-38	10.17.12	3,000	<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 MW-39	7.29.11 10.27.11	NA NA	27 260	14 <1.0	1.9	18 3.5	0.80	<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 MW-39	7.30.12	NA NA	170	<2.0 <2.0	<2.0 <2.0	8.6 <4.0	0.58	<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 MW-40	10.26.11	NA NA	Dry Dry	Dry Dry	Dry 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-41 MW-41	1.31.11 4.18.11	NA NA	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<10	<0.25 <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 MW-41	1.27.12 4.18.12	NA NA	<1.0	<1.0	<1.0	<2.0 <2.0	<0.050 <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-42 MW-42	2.4.11 3.3.11	NA 75,400	<5.0 NA	<5.0 NA	<5.0 NA	<10 NA	<0.25 NA	NA NA		
MW-42 MW-42	4.19.11	75,400 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 MW-42	1.30.12 4.18.12	NA NA	<1.0	<1.0	<1.0 <1.0	<2.0 <2.0	<0.050 <0.050	<1.0		
MW-42 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-43	1.28.11	NA	<1.0	<1.0	<1.0	<2.0	0.06	<1.0		
MW-43 MW-43	4.19.11 7.29.11	NA NA	<1.0	<1.0	<1.0	<2.0	<0.050 <0.050	<1.0		
NIVI VY ~45.3	1.29.11		<1.0	<1.0	<1.0		and the second s	-		
MW-43	10.26.11	NA	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0		

		GRO	T∄ Largo Com UNDWATER					
Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzene (µg/L.)	Toluene (µg/L)	Ethylbenzene (#g/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Wate Commission Gro Stand		NE	10	750	750	620	NE	NE
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

	TABLE 1 Largo Compressor Station GROUNDWATER ANALYTICAL SUMMARY										
Sample I.D.	Date	Total Dissolved Solids (mg/L)	Benzone (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)			
	er Quality Control oundwater Quality dards	NE	10	750	750	620	NE	NE			
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-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-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-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-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-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			

Note: Concentrations in **bold** and yeliow 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

MW-3R 45.10 6.325.10 7.13.10 8.366.10 8.366.10 11.18.	Monitoring Well ID	Mcasurement Date	Top-of-Casing Elevation (feet)	Depth to PSH	Depth to Water (feet)	PSH Thickness	Corrected Groundwater
MW3R 0.25:10 7.13.10 826:10 11.18.10 11.18.10 11.18.10 11.25:11 11.25:11 11.26:12 7.27:11 126:12 7.27:11 126:12 7.13.10 126:12 7.13.10 126:12 7.13.10 126:12 7.10.26:11 7.11 7.11			poor	and the second se			
MW3R 7,13.10 None Observed 22.47 0.0 6005.01 None Observed 22.32 0.0 6005.34 None Observed 22.32 0.0 6005.34 None Observed 22.32 0.0 6005.34 None Observed 22.31 0.0 6005.34 None Observed 22.31 0.0 6005.44 None Observed 22.31 0.0 6005.44 None Observed 22.31 0.0 6004.47 None Observed 22.01 0.0 6004.47 None Observed 22.60 0.0 6004.42 None Observed 22.61 0.0 6005.01 None Observed 20.01 6005.01 6005.01 None Observed 10.21 0.0 6005.02 None Observed 10.01 6005.02		5.27.10	1	None Observed	21.82	0.0	6095.66
MW3R 8 26:0 None Observed 22:24 0.0 00005:16 NMW3R 1.25:11 None Observed 22:13 0.0 6005:16 None Observed 22:13 0.0 6005:40 None Observed 22:13 0.0 6005:40 None Observed 22:10 0.0 6005:40 None Observed 22:81 0.0 6004:47 None Observed 22:210 0.0 6004:47 None Observed 22:61 0.0 6004:47 None Observed 22:261 0.0 6004:47 None Observed 10:0 6005:30 None Observed 10:0 0.0 6005:30 None Observed 10:0 6005:30 None Observed 10:0 0.0 6005:30 None Observed 10:0 6005:30 None Observed 10:0 0.0 6005:30 None Observed 10:0 6005:30 None Observed 10:0 0.0 6005:30 None Observed 10:0 6005:30 None Observed 10:0 <		6.25.10]	None Observed	22.22	0.0	6095.26
MW3R 11.18.10 11.18.10 None Observed 22.32 0.0 6005.35 None Observed 22.13 0.0 6005.35 0.00 6005.35 None Observed 22.10 0.0 6005.46 0.00 6005.47 None Observed 22.81 0.0 6004.47 0.00 6004.47 None Observed 22.21 0.0 6004.47 0.00 6004.47 None Observed 22.266 0.0 6004.42 0.00 6004.42 None Observed 22.260 0.0 6005.16 0.00 6005.16 None Observed 22.260 0.0 6005.33 6006.19 0.00 6005.33 None Observed 10.18 None Observed 10.28 0.0 6005.03 At 510 None Observed 10.18 0.0 6005.63 None Observed 10.28 0.0 6006.05 8 None Observed 10.18 0.0 6006.05 8 None Observed 10.18 0.0							
MW3R 1.25.11 4.22.11 7.27.11 6117.48 None Observed None Observed 22.19 0.0 6005.40 0.00 None Observed 22.21 0.0 6004.47 None Observed 22.241 0.0 6004.47 None Observed 22.261 0.0 6004.47 None Observed 22.261 0.0 6004.42 None Observed 22.261 0.0 6005.30 None Observed 10.20 6005.30 0.0 6005.30 None Observed 10.217 0.0 6005.60 0.0 6005.60 None Observed 10.28 0.0 6005.60 0.0 6005.60 None Observed 10.28 None Observed 10.20 6005.60 0.0 6005.60 None Observed 10.40 0.0 6005.60 0.0 6005.60 None Observed							
MW-3R 4.22.11 6117.48 None Observed 21.99 0.0 6006.49 None Observed 22.81 0.0 6004.67 None Observed 22.91 0.0 6004.77 None Observed 22.91 0.0 6004.74 A19.12 None Observed 22.81 0.0 6004.73 None Observed 22.81 0.0 6004.73 None Observed 22.81 0.0 6004.82 None Observed 22.81 0.0 6004.82 None Observed 20.81 0.0 6005.93 None Observed 20.28 0.0 6005.30 None Observed 10.11 0.0 6005.33 None Observed 10.81 None Observed 10.82 0.0 6005.53 None Observed 10.82 0.0 6005.53 None Observed 10.81 None Observed 10.82 0.0 6005.53 None Observed 10.82 None Observed 10.82 0.0 6005.57 None Observed <td></td> <td></td> <td></td> <td>and the second se</td> <td></td> <td></td> <td></td>				and the second se			
MW-6 7.27.11 None Observed 22.81 0.0 6004.67 None Observed 22.91 0.0 6004.57 None Observed 22.74 0.0 6004.57 None Observed 22.74 0.0 6004.74 None Observed 22.66 0.0 6004.42 None Observed 22.86 0.0 6004.42 None Observed 22.364 0.0 6005.30 None Observed 20.38 0.0 6005.30 None Observed 19.54 0.0 6005.30 None Observed 19.87 0.0 6005.31 None Observed 19.87 0.0 6005.75 None Observed 19.82 0.0 6005.75 None Observed 19.82 0.0 6005.67 None Observed 19.82 0.0 6005.67 None Observed 19.83 0.0 6005.67 None Observed 19.42 0.0 6005.67 None Observed 19.42 0.0	MW-3R		6117.48	and the second design of the s			
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Image: Market	MW-7		6116.65	And and a second se		ALC DO	
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MW-8 11.18.10 None Observed 21.70 0.0 6094.95 None Observed 21.88 0.0 6094.95 None Observed 22.12 0.0 6094.53 8.10.09 22.510 0.0 6094.85 2.25.10 0.0 6095.03 6095.03 4.5.10 5.27.10 0.0 6095.31 5.27.10 None Observed 22.85 0.0 6095.31 None Observed 23.01 0.0 6095.07 None Observed 23.23 0.0 6095.05 None Observed 23.21 0.0 6095.07 None Observed 23.23 0.0 6095.05 None Observed 23.23 0.0 6095.05 None Observed 23.23 0.0 6095.05 None Observed 23.30 0.0 6095.05 None Observed 23.30 0.0 6095.18 None Observed 23.10 0.0 6095.34 None Observed 23.75 0.0 <td></td> <td>10.26.11</td> <td></td> <td>None Observed</td> <td>21.94</td> <td>0.0</td> <td>6094.71</td>		10.26.11		None Observed	21.94	0.0	6094.71
None Observed 21.88 0.0 6094.77 10.18.12 None Observed 22.12 0.0 6094.53 8.10.09 11.24.09 23.17 0.0 6095.11 11.24.09 None Observed 23.17 0.0 6095.31 2.25.10 None Observed 23.25 0.0 6095.03 4.5.10 None Observed 22.97 0.0 6095.43 None Observed 23.01 0.0 6095.43 None Observed 23.23 0.0 6095.05 7.13.10 None Observed 23.23 0.0 6095.05 None Observed 23.23 0.0 6095.05 None Observed 23.23 0.0 6095.05 None Observed 23.30 0.0 6095.05 None Observed 23.10 0.0 6095.34 None Observed 23.10 0.0 6095.34 None Observed 23.30 0.0 6095.34 None Observed 23.10 0.0 6095.34				The second s	the second s		
International methods None Observed 22.12 0.0 6094.53 8.10.09 11.24.09 23.17 0.0 6095.11 11.24.09 2.25.10 None Observed 23.43 0.0 6094.85 2.25.10 0.0 6095.03 6095.03 6095.03 4.5.10 5.27.10 None Observed 22.85 0.0 6095.43 5.27.10 None Observed 23.01 0.0 6095.27 7.13.10 None Observed 23.21 0.0 6095.07 None Observed 23.23 0.0 6095.05 None Observed 23.23 0.0 6095.05 None Observed 23.23 0.0 6095.05 None Observed 23.30 0.0 6095.05 None Observed 23.10 0.0 6095.34 1.25.11 None Observed 23.10 0.0 6095.34 None Observed 23.10 0.0 6095.34 None Observed 23.75 0.0 6094.53	64 C 1 1 1 1 1 1 1 1			The second s			
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MW-8 4.5.10 None Observed 22.97 0.0 6095.31 MW-8 6.25.10 None Observed 22.85 0.0 6095.43 None Observed 23.01 0.0 6095.27 None Observed 23.21 0.0 6095.07 None Observed 23.23 0.0 6095.05 None Observed 23.23 0.0 6095.05 None Observed 23.30 0.0 6095.05 None Observed 23.10 0.0 6095.34 A.22.11 None Observed 23.10 0.0 6095.34 None Observed 23.10 0.0 6095.34 None Observed 23.10 0.0 6095.34 None Observed 23.56 0.0 6094.72 None Observed 23.75 0.0 6094.53 None Observed 23.54 0.0 6094.64 None Observed 23.19 0.0 6095.09	0.000			and the second se			Child College College
MW-8 5.27.10 None Observed 22.85 0.0 6095.43 MW-8 7.13.10 None Observed 23.01 0.0 6095.07 8.26.10 None Observed 23.21 0.0 6095.07 None Observed 23.23 0.0 6095.05 11.18.10 6118.28 None Observed 23.30 0.0 6095.05 1.25.11 None Observed 23.30 0.0 6095.34 None Observed 23.10 0.0 6095.34 None Observed 23.56 0.0 6094.53 None Observed 23.75 0.0 6094.53 None Observed 23.75 0.0 6094.53 None Observed 23.75 0.0 6094.53 None Observed 23.64 0.0 6094.64 None Observed 23.19 0.0 6095.09	1. 1. 1. 1. 1. 1.		1	and the second se	the second se		
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MW-8 8.26.10 None Observed 23.23 0.0 6095.05 11.18.10 11.18.10 6118.28 None Observed 23.30 0.0 6095.05 1.25.11	and the second second		1		and the second se		
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							
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	MW-8	11.18.10	6118.28	None Observed	23.30	0.0	6094.98
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		1.25.11		None Observed	23.10	0.0	6095.18
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	and the second second			the second se	22.94	0.0	6095.34
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	1 0 m / 1			sector and the sector of the sector sec	and the second se	the second se	
4.19.12 None Observed 23.54 0.0 6094.74 7.31.12 None Observed 23.19 0.0 6095.09				the second s	the second se		
7.31.12 None Observed 23.19 0.0 6095.09	and the second second			and the second se	and the second se		
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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
	8.10.09		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 6.25.10		None Observed	21.10 21.56	0.0	6096.73 6096.27
	7.13.10		None Observed	21.56	0.0	6096.06
	8.26.10		None Observed	21.58	0.0	6096.25
MW-9	11.18.10	6117.83	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 4.19.12		None Observed	22.04 21.88	0.0	6095.79 6095.95
	7.31.12		None Observed	21.98	0.0	6095.85
	10.18.12	· · · · · · · · · · · · · · · · · · ·	None Observed	22.37	0.0	6095.46
	4.5.10		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
MW-11	1.25.11 4.22.11	6116.65	None Observed	21.02	0.0	6095.63
	7.27.11		None Observed	20.91 21.89	0.0	6095.74 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
	4.5.10	Contraction of the	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 8.26.10	6111.24	None Observed	15.91 15.55	0.0	6095.33 6095.69
	11.18.10		None Observed	16.58	0.0	6094.66
	1.25.11		None Observed	15.73	0.0	6095.51
MW-12	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	2.4	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 16.3	15.83 16.31	0.0	6095.41 6094.94
	4.5.10		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
MW-13	1.25.11	6115.46	None Observed	19.71	0.0	6095.75
	4.22.11 7.27.11		None Observed	19.65 20.59	0.0	6095.81 6094.87
	10.26.11		None Observed	20.59	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
	4.5.10		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 8.26.10	A	None Observed	21.19	0.0	6094.80
	11.18.10		None Observed	20.70 20.73	0.0	6095.29 6095.26
	1.25.11		None Observed	20.73	0.0	6095.47
MW-14	4.22.11	6115.99	None Observed	20.52	0.0	6095.54
	7.27.11		None Observed	21.47	0.0	6094.52
S 10 1 1	10.26.11	_	None Observed	21.48	0.0	6094.51
12355	1.26.12		None Observed	21.15	0.0	6094.84
646 C. 19 B. C.	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

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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
	4.5.10		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 6095.42
MW-15	4.22.11	6116.49	None Observed	20.95	0.0	6095.54
	7.27.11		None Observed	21.95	0.0	6094.54
- 10 M	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	1.1.1	None Observed	21.56	0.0	6094.93
1. S.	7.31.12		None Observed	Errant Gauge	0.0	Errant Gauge
	10.18.12		None Observed	22.05	0.0	6094.44
	4.5.10		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 8.26.10		None Observed	22.29	0.0	6095.28 6095.52
	11.18.10		None Observed	22.05	0.0	6095.46
1000	1.25.11		None Observed	21.87	0.0	6095.70
MW-16	4.22.11	6117.57	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	1.1	None Observed	22.50	0.0	6095.07
	4.19.12		None Observed	22.38	0.0	6095.19
1	7.31.12		None Observed	Errant Gauge	0.0	Errant Gauge
	10.18.12		None Observed	22.82	0.0	6094.75
	1.25.11		None Observed	12.67	0.0	6097.55
10 A 10	4.22.11 7.27.11		None Observed	12.49 13.47	0.0	6097.73 6096.75
and the second second	10.26.11		None Observed	13.56	0.0	6096.66
MW-32	1.26.12	6110.22	None Observed	13.23	0.0	6096.99
	4.18.12		None Observed	13.05	0.0	6097.17
and the second se	7.30.12		None Observed	14.10	0.0	6096.12
	10.18.12		None Observed	13.59	0.0	6096.63
A REAL PROPERTY OF A REAL PROPER	1.25.11*		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
MW-33	10.26.11	6114.02	15.55	16.15	0.60	6098.28
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.26.12 4.18.12		15.83	15.84	0.01	6098.19
	8.31.12		Not Gauged 15.4	17.29	1.89	Not Gauged 6098.03
and the second second	10.18.12	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	14.39	17.51	3.12	6098.66
	1.25.11		None Observed	17.38	0.0	6097.92
1	4.22.11		None Observed	17.20	0.0	6098.10
	7.27.11		None Observed	18.23	0.0	6097.07
MW-34	10.26.11	6115.3	None Observed	18.32	0.0	6096.98
1111-54	1.26.12	0115.5	None Observed	17.98	0.0	6097.32
S	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
and the second se	1.25.11*		14.5	14.75	0.25	6097.64
	4.22.11 7.27.11		14.22	14.80	0.58	6097.82 6096.72
a apple one	10.26.11	Charles and the second second	15.14	16.64	1.50	6096.62
MW-35	1.26.12	6112.22	14.72	14.73	0.01	6097.50
100 million (1990)	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
	1.25.11		None Observed	13.80	0.0	6097.68
	4.22.11		None Observed	13.65	0.0	6097.83
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.27.11		None Observed	14.69	0.0	6096.79
MW-36	10.26.11	6111.48	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
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.30.12		None Observed	14.10	0.0	6097.38
	10.18.12		None Observed	14.76	0.0	6096.72

Monitoring Well ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwate Elevation ¹
	1.25.11		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
MW-37	10.26.11	6110.73	13.88	13.92	0.04	6096.84
	1.26.12		13.54 Not Gauged	13.54	0.01	6097.20 Not Gauged
	7.30.12	_	sheen	13.15	sheen	6097.64
	10.18.12		13.89	13.90	0.01	6096.84
	1.25.11	1	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
MW-38	10.26.11	6110.43	None Observed	13.10	0.0	6097.33
	1.26.12 4.18.12		None Observed	12.68	0.0	6097.75 6098.32
	7.30.12		None Observed	12.11	0.0	6098.19
Acres in the second second	10.18.12		None Observed	13.01	0.0	6097.42
	1.25.11		None Observed	16.21	0.0	6097.49
	4.22.11	1	None Observed	17.35	0.0	6096.35
	7.27.11		None Observed	16.43	0.0	6097.27
MW-39	10.26.11	6113.70	None Observed	16.52	0.0	6097.18
	1.26.12	0110.10	None Observed	16.57	0.0	6097.13
	4.18.12		None Observed	16.61	0.0	6097.09
1	7.30.12		None Observed	16.69 16.77	0.0	6097.01 6096.93
	1.25.11		None Observed	19.16	0.0	6096.53
	4.22.11		None Observed	dry	0.0	dry
MW-40	7.27.11	6115.69	None Observed	dry	0.0	dry
	10.26.11		None Observed	dry	0.0	dry
and the second second	1.26.12		None Observed	dry	0.0	dry
	4.18.12		None Observed	19.58	0.0	6096.03
MW-40R	7.30.12	6115.61	None Observed	19.69	0.0	6095.92
	10.18.12		None Observed	19.96	0.0	6095.65
	1.25.11		None Observed	14.14	0.0	6097.93
	4.22.11	6112.07	None Observed	14.18	0.0	6097.89
	7.27.11		None Observed	14.08	0.0	6097.99
MW-41	1.26.12		None Observed	14.97 14.20	0.0	6097.10 6097.87
	4.18.12		None Observed	14.20	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
1.4	1.25.11		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
MW-42	10.26.11	6121.53	None Observed	25.16	0.0	6096.37
	1.26.12 4.18.12		None Observed Not Gauged	24.92	0.0	6096.61 Not Gauged
	7.30.12		dry	dry	dry	dry
	10.18.12		dry	dry	dry	dry
	1.25.11		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
MW-43	10.26.11	6112.92	None Observed	16.35	0.0	6096.57
	1.26.12 4.18.12	-	None Observed	16.05 15.87	0.0	6096.87 6097.05
	7.30.12		None Observed	15.87	0.0	6097.05
	10.18.12		None Observed	16.35	0.0	6096.57
	1.25.11		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
MW-47	10.26.11	6114.41	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
MW-48	4.18.12	0100.01	Not Gauged			Not Gauged
	7.30.12	6109.21	None Observed	11.90	0.0	6097.31
MW-48						
MW-48	10.18.12		None Observed	12.26	0.0	6096.95
MW-48 MW-49	10.18.12 4.18.12 7.30.12	6109.54	None Observed None Observed	12.26 12.38 12.22	0.0 0.0 0.0	6096.95 6097.16 6097.32

Monitoring Weli ID	Measurement Date	Top-of-Casing Elevation (feet)	Depth to PSH (feet)	Depth to Water (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation ¹
	4.18.12		None Observed	24.64	0.0	6095.98
MW-50	7.30.12	6120.62	None Observed	24.93	0.0	6095.69
	10.18.12		None Observed	25.11	0.0	6095.51
	4.18.12		None Observed	18.33	0.0	6095.17
MW-51	7.30.12	6113.50	None Observed	17.47	0.0	6096.03
	10.18.12		None Observed	17.81	0.0	6095.69
	4.18.12		None Observed	21.11	0.0	6097.87
MW-52	7.30.12	6118.98	None Observed	21.10	0.0	6097.88
	10.18.12		None Observed	21.08	0.0	6097.90

* - 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



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

November 01, 2012

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.: 1210928

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 18 sample(s) on 10/19/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued November 1, 2012.

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 11/1/2012

Hall Environmental Analysis Laboratory, Inc.

EPA MET	HOD 8015B: DIESEL RANG	E					Analyst:
Analyses		Result	RL	Qual	Units	DF	Date Analyzed
Lab ID:	1210928-001	Matrix:	AQUEOU	S	Received	Date: 10/19/	2012 10:00:00 AM
Project:	Largo CS				Collection 1	Date: 10/16/	2012 10:35:00 AM
CLIENT:	Southwest Geoscience			C	lient Sampl	le ID:MW-4	1

EPA METHOD 8015B: DIESEL RANG	E				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 3:12:11 AM
Surr: DNOP	94.2	79.5-166	%REC	1	10/20/2012 3:12:11 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/24/2012 2:47:48 AM
Surr: BFB	89.6	69.8-119	%REC	1	10/24/2012 2:47:48 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	10/24/2012 2:47:48 AM
Toluene	ND	1.0	µg/L	1	10/24/2012 2:47:48 AM
Ethylbenzene	ND	1.0	µg/L	1	10/24/2012 2:47:48 AM
Xylenes, Total	ND	2.0	µg/L	1	10/24/2012 2:47:48 AM
Surr: 4-Bromofluorobenzene	96.8	69.7-152	%REC	1	10/24/2012 2:47:48 AM

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits J

P Sample pH greater than 2

RL **Reporting Detection Limit**

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Lab Order 1210928

Date Reported: 11/1/2012

10/20/2012 3:37:09 AM

10/24/2012 3:16:32 AM

Analyst: NSB

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Southwest Geoscience	Client Sample ID: MW-32						
Project:	Largo CS	Collection Date: 10/16/2012 11:45:00 AM						
Lab ID:	1210928-002	Matrix:	AQUEOUS	Received Date: 10/19/2012 10:00:00 AM				
Analyses		Result	RL Qual	Units	DF	Date Analyzed		
EPA MET	THOD 8015B: DIESEL RANGE					Analyst: JMP		
Diesel R	ange Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 3:37:09 AM		

79.5-166

0.050

1.0

1.0

1.0

2.0

69.7-152

69.8-119

%REC

mg/L

µg/L

µg/L

µg/L

µg/L

%REC

%REC

1

1

1

1

1

1

1

1

102

ND

90.6

ND

ND

ND

ND

97.6

Qualifiers:

+

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8015B: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

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

Date Reported: 11/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience

1210928-003

Project: Largo CS

Lab ID:

Client Sample ID: MW-34 Collection Date: 10/16/2012 12:30:00 PM

Received Date: 10/19/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 4:01:56 AM
Surr: DNOP	101	79.5-166	%REC	1	10/20/2012 4:01:56 AM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/24/2012 3:45:09 AM
Surr: BFB	89.4	69.8-119	%REC	1	10/24/2012 3:45:09 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	10/24/2012 3:45:09 AM
Toluene	ND	1.0	µg/L	1	10/24/2012 3:45:09 AM
Ethylbenzene	ND	1.0	µg/L	1	10/24/2012 3:45:09 AM
Xylenes, Total	ND	2.0	µg/L	1	10/24/2012 3:45:09 AM
Surr: 4-Bromofluorobenzene	96.5	69.7-152	%REC	1	10/24/2012 3:45:09 AM

Matrix: AQUEOUS

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

Date Reported: 11/1/2012

10/24/2012 4:13:55 AM

10/24/2012 4:13:55 AM

10/24/2012 4:13:55 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience		(lient Sample	e ID: MW-4	3			
Project: Largo CS	Collection Date: 10/16/2012 1:25:00 PM							
Lab ID: 1210928-004	Matrix:	Received D	Received Date: 10/19/2012 10:00:00 AM					
Analyses	Result	RL Qual	Units	DF	Date Analyzed			
EPA METHOD 8015B: DIESEL RANG)E				Analyst: JMP			
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 4:26:46 AM			
Surr: DNOP	100	79.5-166	%REC	1	10/20/2012 4:26:46 AM			
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB			
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/24/2012 4:13:55 AM			
Surr: BFB	88.0	69.8-119	%REC	1	10/24/2012 4:13:55 AM			
EPA METHOD 8021B: VOLATILES					Analyst: NSB			
Benzene	ND	1.0	µg/L	1	10/24/2012 4:13:55 AM			
Toluene	ND	1.0	µg/L	1	10/24/2012 4:13:55 AM			

1.0

2.0

69.7-152

µg/L

µg/L

%REC

1

1

1

ND

ND

94.8

Qualifiers:

*

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits J

P Sample pH greater than 2

Reporting Detection Limit RL

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Date Reported: 11/1/2012

Analyst: NSB

Analyst: NSB 10/24/2012 4:42:41 AM

10/24/2012 4:42:41 AM 10/24/2012 4:42:41 AM

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015B: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

CLIENT:	Southwest Geoscience	Client Sample ID: MW-51						
Project:	Largo CS			Collection I	Date: 10/16/	2012 2:25:00 PM		
Lab ID:	1210928-005	Matrix:	AQUEOUS	Received Date: 10/19/2012 10:00:00 AM				
Analyses		Result	RL Qual	Units	DF	Date Analyzed		
EPA MET	HOD 8015B: DIESEL RANG	E				Analyst: JMP		
Diesel Ra	ange Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 5:16:45 AM		
Surr: D	DNOP	101	79.5-166	%REC	1	10/20/2012 5:16:45 AM		

0.050

1.0

1.0

1.0

2.0

69.7-152

69.8-119

mg/L

µg/L

µg/L

µg/L

µg/L

%REC

%REC

1

1

1

1

1

1

1

0.16

94.4

14

ND

4.8

21

99.7

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

P Sample pH greater than 2

Reporting Detection Limit RL

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Lab Order 1210928

Date Reported: 11/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience Client Sample ID: MW-40R Project: Largo CS Collection Date: 10/16/2012 3:15:00 PM Lab ID: 1210928-006 Matrix: AQUEOUS Received Date: 10/19/2012 10:00:00 AM Analyses Result **RL** Qual Units DF **Date Analyzed** ----

EPA METHOD 8015B: DIESEL RANGE					Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 5:41:52 AM
Surr: DNOP	102	79.5-166	%REC	1	10/20/2012 5:41:52 AM
EPA METHOD 8015B: GASOLINE RANGE	1				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/24/2012 5:11:20 AM
Surr: BFB	89.2	69.8-119	%REC	1	10/24/2012 5:11:20 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	10/24/2012 5:11:20 AM
Toluene	ND	1.0	µg/L	1	10/24/2012 5:11:20 AM
Ethylbenzene	ND	1.0	µg/L	1	10/24/2012 5:11:20 AM
Xylenes, Total	ND	2.0	µg/L	1	10/24/2012 5:11:20 AM
Surr: 4-Bromofluorobenzene	96.6	69.7-152	%REC	1	10/24/2012 5:11:20 AM

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

Ρ Sample pH greater than 2

RL **Reporting Detection Limit**

- Analyte detected in the associated Method Blank В
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Date Reported: 11/1/2012

10/25/2012 11:05:14 PM

10/25/2012 11:05:14 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience Project: Largo CS	Client Sample ID: MW-50 Collection Date: 10/17/2012 9:30:00 AM						
Lab ID: 1210928-007	Matrix:	AQUEOUS	Received L	Date: 10/19/	2012 10:00:00 AM		
Analyses	Result	RL Qua	l Units	DF	Date Analyzed		
EPA METHOD 8015B: DIESEL RANG	E				Analyst: JMP		
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 6:06:58 AM		
Surr: DNOP	98.7	79.5-166	%REC	1	10/20/2012 6:06:58 AM		
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB		
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/25/2012 11:05:14 PM		
Surr: BFB	117	51.9-148	%REC	1	10/25/2012 11:05:14 PM		
EPA METHOD 8021B: VOLATILES					Analyst: NSB		
Benzene	ND	1.0	µg/L	1	10/25/2012 11:05:14 PM		
Toluene	ND	1.0	µg/L	1	10/25/2012 11:05:14 PM		
Ethylbenzene	ND	1.0	µg/L	1	10/25/2012 11:05:14 PM		

2.0

69.7-152

µg/L

%REC

1

ND

105

Qualifiers:

*

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

Lab Order 1210928

Date Reported: 11/1/2012

10/25/2012 11:35:26 PM

10/25/2012 11:35:26 PM

10/25/2012 11:35:26 PM

10/25/2012 11:35:26 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience			Client Sample	e ID: MW-5	2				
Project: Largo CS		Collection Date: 10/17/2012 10:50:00 AM							
Lab ID: 1210928-008	Matrix:	AQUEOUS	Received I	Date: 10/19/	2012 10:00:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015B: DIESEL RANG	E				Analyst: JMP				
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 6:32:05 AM				
Surr: DNOP	97.7	79.5-166	%REC	1	10/20/2012 6:32:05 AM				
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB				
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/25/2012 11:35:26 PM				
Surr: BFB	113	51.9-148	%REC	1	10/25/2012 11:35:26 PM				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	ND	1.0	µg/L	1	10/25/2012 11:35:26 PM				

1.0

1.0

2.0

69.7-152

µg/L

µg/L

µg/L

%REC

1

1

1

1

ND

ND

ND

104

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

* Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits J

P Sample pH greater than 2

RL **Reporting Detection Limit**

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

Lab Order 1210928 Date Reported: 11/1/2012

CLIENT: Southwest Geoscience			Client Sample	ID:MW-3	9	
Project: Largo CS			Collection	ate: 10/17/	2012 11:40:00 AM	
Lab ID: 1210928-009	Matrix:	AQUEOUS	Received I	Received Date: 10/19/2012 10:00:00 AM		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	E				Analyst: JMP	
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 6:57:16 AM	
Surr: DNOP	97.3	79.5-166	%REC	1	10/20/2012 6:57:16 AM	
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB	
Gasoline Range Organics (GRO)	ND	0.10	mg/L	2	10/26/2012 12:05:37 AM	
Surr: BFB	116	51.9-148	%REC	2	10/26/2012 12:05:37 AM	
EPA METHOD 8021B: VOLATILES					Analyst: NSB	
Benzene	13	2.0	µg/L	2	10/26/2012 12:05:37 AM	
Toluene	ND	2.0	µg/L	2	10/26/2012 12:05:37 AM	
Ethylbenzene	ND	2.0	µg/L	2	10/26/2012 12:05:37 AM	
Xylenes, Total	ND	4.0	µg/L	2	10/26/2012 12:05:37 AM	

69.7-152

%REC

2

10/26/2012 12:05:37 AM

102

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

P Sample pH greater than 2

RL **Reporting Detection Limit**

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Lab Order 1210928

Date Reported: 11/1/2012

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Southwest Geoscience
 Client Sample ID: MW-49

 Project: Largo CS
 Collection Date: 10/17/2012 12:55:00 PM

 Lab ID: 1210928-010
 Matrix: AQUEOUS
 Received Date: 10/19/2012 10:00:00 AM

 Applyance
 Paralytics
 DE
 Date Applyand

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 7:22:07 AM
Surr: DNOP	100	79.5-166	%REC	1	10/20/2012 7:22:07 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/26/2012 1:06:01 AM
Surr: BFB	116	51.9-148	%REC	1	10/26/2012 1:06:01 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	10/26/2012 1:06:01 AM
Toluene	ND	1.0	µg/L	1	10/26/2012 1:06:01 AM
Ethylbenzene	ND	1.0	µg/L	1	10/26/2012 1:06:01 AM
Xylenes, Total	ND	2.0	µg/L	1	10/26/2012 1:06:01 AM
Surr: 4-Bromofluorobenzene	102	69.7-152	%REC	1	10/26/2012 1:06:01 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

Analytical Report

Lab Order 1210928

Date Reported: 11/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: South	nwest Geoscience	Client Sample ID: MW-48									
Project: Large	o CS		Collection Date: 10/17/2012 2:05:00 PM								
Lab ID: 1210	928-011	Matrix:	AQUEOUS	Received D	Date: 10/19/2012 10:00:00 AM						
Analyses	nalyses EPA METHOD 8015B: DIESEL RANG	Result	RL Qu	al Units	DF	Date Analyzed					
EPA METHOD	8015B: DIESEL RAN	GE				Analyst: JMP					
Diesel Range O	rganics (DRO)	ND	1.0	mg/L	1	10/20/2012 7:47:15 AM					
Surr: DNOP		104	79.5-166	%REC	1	10/20/2012 7:47:15 AM					
EPA METHOD	8015B: GASOLINE R	ANGE				Analyst: NSB					
Gasoline Range	e Organics (GRO)	8.5	1.0	mg/L	20	10/26/2012 1:36:30 AM					
Surr: BFB		117	51.9-148	%REC	20	10/26/2012 1:36:30 AM					

EPA METHOD 8021B: VOLATILES

EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	190	20	µg/L	20	10/26/2012 1:36:30 AM
Toluene	580	20	µg/L	20	10/26/2012 1:36:30 AM
Ethylbenzene	150	20	µg/L	20	10/26/2012 1:36:30 AM
Xylenes, Total	1700	40	µg/L	20	10/26/2012 1:36:30 AM
Surr: 4-Bromofluorobenzene	110	69.7-152	%REC	20	10/26/2012 1:36:30 AM

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

J Analyte detected below quantitation limits

Sample pH greater than 2 P

RL Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Date Reported: 11/1/2012

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Southwest Geoscience
 Client Sample ID: MW-38

 Project: Largo CS
 Collection Date: 10/17/2012 3:05:00 PM

 Lab ID: 1210928-012
 Matrix: AQUEOUS
 Received Date: 10/19/2012 10:00:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed

EPA METHOD 8015B: DIESEL RANGE					Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 8:12:23 AM
Surr: DNOP	102	79.5-166	%REC	1	10/20/2012 8:12:23 AM
EPA METHOD 8015B: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/26/2012 2:37:09 AM
Surr: BFB	118	51.9-148	%REC	1	10/26/2012 2:37:09 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	10/26/2012 2:37:09 AM
Toluene	ND	1.0	µg/L	1	10/26/2012 2:37:09 AM
Ethylbenzene	ND	1.0	µg/L	1	10/26/2012 2:37:09 AM
Xylenes, Total	ND	2.0	µg/L	1	10/26/2012 2:37:09 AM
Surr: 4-Bromofluorobenzene	105	69.7-152	%REC	1	10/26/2012 2:37:09 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

Date Reported: 11/1/2012

10/20/2012 8:37:28 AM

10/26/2012 3:07:21 AM

Analyst: NSB

Analyst: NSB

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Southwest Geoscience	Client Sample ID: MW-36							
Project:	Largo CS			Collection	Date: 10/17/	2012 3:50:00 PM			
Lab ID:	1210928-013	Matrix:	AQUEOUS	Received	Date: 10/19/	2012 10:00:00 AM			
Analyses		Result	RL Qual	Units	DF	Date Analyzed			
EPA MET	HOD 8015B: DIESEL RANGE	E				Analyst: JMP			
Diesel R	ange Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 8:37:28 AM			

79.5-166

0.050

1.0

1.0

1.0

2.0

69.7-152

51.9-148

99.5

ND

119

ND

ND

ND

ND

107

%REC

mg/L

µg/L

µg/L

µg/L

µg/L

%REC

%REC

1

1

1

1

1

1

1

1

Qualifiers:

*

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

EPA METHOD 8015B: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

Reporting Detection Limit RL

- В 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

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1210928 Date Reported: 11/1/2012

CLIENT:	Southwest Geoscience	
Project:	Largo CS	

1210928-014

Lab ID:

Client Sample ID: MW-6 Collection Date: 10/18/2012 9:00:00 AM

Received Date: 10/19/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 9:02:52 AM
Surr: DNOP	101	79.5-166	%REC	1	10/20/2012 9:02:52 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/26/2012 3:37:27 AM
Surr: BFB	118	51.9-148	%REC	1	10/26/2012 3:37:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	10/26/2012 3:37:27 AM
Toluene	ND	1.0	µg/L	1	10/26/2012 3:37:27 AM
Ethylbenzene	ND	1.0	µg/L	1	10/26/2012 3:37:27 AM
Xylenes, Total	ND	2.0	µg/L	1	10/26/2012 3:37:27 AM
Surr: 4-Bromofluorobenzene	106	69.7-152	%REC	1	10/26/2012 3:37:27 AM

Matrix: AQUEOUS

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

P Sample pH greater than 2

Reporting Detection Limit RL

Analyte detected in the associated Method Blank В

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

H Holding times for preparation or analysis exceeded

Date Reported: 11/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience **Client Sample ID: MW-13 Project:** Largo CS Collection Date: 10/18/2012 10:00:00 AM Lab ID: 1210928-015 Matrix: AQUEOUS Received Date: 10/19/2012 10:00:00 AM Analyses Result **RL** Qual Units DF **Date Analyzed** ---------

EPA METHOD 8015B: DIESEL RANGE					Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 8:39:55 PM
Surr: DNOP	121	79.5-166	%REC	1	10/20/2012 8:39:55 PM
EPA METHOD 8015B: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/26/2012 4:07:36 AM
Surr: BFB	118	51.9-148	%REC	1	10/26/2012 4:07:36 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	10/26/2012 4:07:36 AM
Toluene	ND	1.0	µg/L	1	10/26/2012 4:07:36 AM
Ethylbenzene	ND	1.0	µg/L	1	10/26/2012 4:07:36 AM
Xylenes, Total	ND	2.0	µg/L	1	10/26/2012 4:07:36 AM
Surr: 4-Bromofluorobenzene	104	69.7-152	%REC	1	10/26/2012 4:07:36 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

Date Reported: 11/1/2012

Analyst: NSB

Analyst: NSB

10/26/2012 4:37:42 AM

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015B: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

CLIENT:	Southwest Geoscience	Client Sample ID: MW-14								
Project:	Largo CS			Collection I	Date: 10/18/	2012 10:50:00 AM				
Lab ID:	1210928-016	Matrix:	AQUEOUS	Received I	Date: 10/19/	2012 10:00:00 AM				
Analyses		Result	RL Qual	Units	DF	Date Analyzed				
EPA MET	HOD 8015B: DIESEL RANGE					Analyst: JMP				
Diesel R	ange Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 9:05:02 PM				
Surr: I	DNOP	121	79.5-166	%REC	1	10/20/2012 9:05:02 PM				

0.050

1.0

1.0

1.0

2.0

69.7-152

51.9-148

mg/L

µg/L

µg/L

µg/L

µg/L

%REC

%REC

ND

118

ND

ND

ND

ND

105

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

P Sample pH greater than 2

RL **Reporting Detection Limit**

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits S

1

1

1

1

1

1

1

Analytical Report

Lab Order 1210928

Date Reported: 11/1/2012

10/26/2012 9:58:38 PM

10/26/2012 9:58:38 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience			CI	lient Sample	ID:MW-4	7	
Project: Largo CS			(Collection D	ate: 10/18/	2012 11:30:00 AM	
Lab ID: 1210928-017	Matrix:	AQUEOUS		Received Date: 10/19/2012 10:00:00 AM			
nalyses PA METHOD 8015B: DIESEL RANG Diesel Range Organics (DRO) Surr: DNOP	Result	RL Q	ual	Units	DF	Date Analyzed	
EPA METHOD 8015B: DIESEL RANG	E					Analyst: JMP	
Diesel Range Organics (DRO)	1.8	1.0		mg/L	1	10/20/2012 9:30:09 PM	
Surr: DNOP	123	79.5-166		%REC	1	10/20/2012 9:30:09 PM	
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB	
Gasoline Range Organics (GRO)	12	0.25		mg/L	5	10/26/2012 9:58:38 PM	
Surr: BFB	1040	51.9-148	S	%REC	5	10/26/2012 9:58:38 PM	
EPA METHOD 8021B: VOLATILES						Analyst: NSB	
Benzene	ND	5.0		µg/L	5	10/26/2012 9:58:38 PM	
Toluene	ND	5.0		µg/L	5	10/26/2012 9:58:38 PM	
Ethylbenzene	ND	5.0		µg/L	5	10/26/2012 9:58:38 PM	

10

S

69.7-152

µg/L

%REC

5

5

91

253

Qualifiers:

*

Xylenes, Total

Surr: 4-Bromofluorobenzene

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

Reporting Detection Limit RL

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1210928 Date Reported: 11/1/2012

CLIENT: Southwest Geoscience

Project: Largo CS 1210928-018 Lab ID:

Client Sample ID: MW-8 Collection Date: 10/18/2012 12:25:00 PM

Received Date: 10/19/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG)E				Analyst: JMP
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/20/2012 9:55:16 PM
Surr: DNOP	125	79.5-166	%REC	1	10/20/2012 9:55:16 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/26/2012 10:59:03 PM
Surr: BFB	114	51.9-148	%REC	1	10/26/2012 10:59:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	10/26/2012 10:59:03 PM
Toluene	ND	1.0	µg/L	1	10/26/2012 10:59:03 PM
Ethylbenzene	ND	1.0	µg/L	1	10/26/2012 10:59:03 PM
Xylenes, Total	ND	2.0	µg/L	1	10/26/2012 10:59:03 PM
Surr: 4-Bromofluorobenzene	98.2	69.7-152	%REC	1	10/26/2012 10:59:03 PM

Matrix: AQUEOUS

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits J

P Sample pH greater than 2

RL Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit ND

R RPD outside accepted recovery limits

WO#: 1210928

02-Nov-12

Client: Southwest Geoscience

Sample ID: MB-4430	SampT	vpe: ME	BLK	Tes	TestCode: EPA Method 8015B: Diesel Range						
Client ID: PBW		ID: 44			RunNo: 6						
Prep Date: 10/19/2012	Analysis D	ate: 10	0/20/2012	5	SeqNo: 1	83215	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	1.0									
Motor Oil Range Organics (MRO)	ND	5.0									
Surr: DNOP	0.98		1.000		98.2	79.5	166	-			
Sample ID: LCS-4430	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Diese	I Range			
Client ID: LCSW	Batch	ID: 44	30	F	RunNo: 6	372					
Prep Date: 10/19/2012	Analysis D	ate: 10	0/20/2012	5	SeqNo: 1	83216	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	4.5	1.0	5.000	0	90.1	74	157				
Surr: DNOP	0.60		0.5000		121	79.5	166				
Sample ID: LCSD-4430	SampT	ype: LC	SD	Tes	tCode: E	PA Method	8015B: Diese	I Range	1		
Client ID: LCSS02	Batch	ID: 44	30	F	RunNo: 6	372					
Prep Date: 10/19/2012	Analysis D	ate: 10	0/20/2012	5	SeqNo: 1	83217	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	4.6	1.0	5.000	0	91.2	74	157	1.18	23		
Surr: DNOP	0.61		0.5000		122	79.5	166	0	0		
Sample ID: MB-4431	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015B: Diese	Range			
Client ID: PBW	Batch	ID: 44	31	RunNo: 6374							
Prep Date: 10/19/2012	Analysis D	ate: 10	0/20/2012	5	SeqNo: 1	83289	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	1.0									
Motor Oil Range Organics (MRO)	ND	5.0									
Surr: DNOP	1.2		1.000	_	120	79.5	166	-	and a sector		
Sample ID: LCS-4431	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Diese	I Range		1.0	
Client ID: LCSW	Batch	ID: 44	31	F	RunNo: 6	374					
Prep Date: 10/19/2012	Analysis D	ate: 10	0/20/2012	5	SeqNo: 1	83290	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	4.3	1.0	5.000	0	85.1	74	157				
Surr: DNOP	0.58		0.5000		116	79.5	166				
Sample ID: LCSD-4431	SampT	ype: LC	SD	Tes	tCode: E	PA Method	8015B: Diese	I Range			
Client ID: LCSS02	Batch	ID: 44	31	F	RunNo: 6	374					
Prep Date: 10/19/2012	Analysis D	ate: 10	0/20/2012	5	SeqNo: 1	83291	Units: mg/L				
The bate. Terreravia											

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

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

Client: Southwest Geoscience

Project: Largo CS

Sample ID: LCSD-4431	SampT	SampType: LCSD		Tes	TestCode: EPA Method 8015B: Diesel Range						
Client ID: LCSS02	Batch	Batch ID: 4431			RunNo: 6374						
Prep Date: 10/19/2012	Analysis D	ate: 10	/20/2012	5	eqNo: 1	83291	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	4.4	1.0	5.000	0	87.7	74	157	3.03	23	19	
Surr: DNOP	0.62		0.5000		124	79.5	166	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

- 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

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WO#: 1210928

02-Nov-12

WO#: 1210928

02-Nov-12

Qual

Qual

Qual

Qual

Qual

Qual

Client:	Southwes	t Geoscier	nce								
Project:	Largo CS										
Sample ID:	5ML RB	Samp	Гуре: МІ	BLK	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	e	
Client ID:	PBW	Batc	h ID: Re	6438	F	RunNo: 6	438				
Prep Date:		Analysis [Date: 1	0/23/2012	5	SeqNo: 1	85178	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	
-	e Organics (GRO)	ND	0.050								
Surr: BFB	2 m m	18		20.00		92.0	69.8	119			_
Sample ID:	2.5UG GRO LCS	Samp	Type: LC	s	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e	
Client ID:	LCSW	Batc	h ID: Re	6438	F	RunNo: 6	438				
Prep Date:		Analysis [Date: 1	0/23/2012	5	SeqNo: 1	85179	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	
Gasoline Rang	e Organics (GRO)	0.39	0.050	0.5000	0	78.6	75.9	119			
Surr: BFB	C	17		20.00		84.5	69.8	119			
Sample ID:	1210928-001AMS	Samp	Type: M	S	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e	
Client ID:	MW-41	Batc	h ID: Re	6438	F	RunNo: 6	438				
Prep Date:		Analysis [Date: 1	0/23/2012	5	SeqNo: 1	85184	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	
	e Organics (GRO)	0.46	0.050		0.02000	87.9	63.5	131			
Surr: BFB		18		20.00		91.3	69.8	119			
Sample ID:	1210928-001AMS	Samp	Type: M	SD	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	e	
Client ID:	MW-41	Batc	h ID: RE	6438	F	RunNo: 6	438				
Prep Date:		Analysis [Date: 1	0/23/2012	5	SeqNo: 1	85185	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	
	e Organics (GRO)	0.49	0.050		0.02000	94.6	63.5	131	7.02	16.7	
Surr: BFB		19		20.00		94.7	69.8	119	0	0	
Sample ID:	5ML RB	Samp	Type: MI	BLK	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	e	
Client ID:	PBW	Batc	hID: RE	507	F	RunNo: 6	507				
Prep Date:		Analysis [Date: 1	0/25/2012	5	SeqNo: 1	87728	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	
	e Organics (GRO)	ND	0.050								
Surr: BFB		23		20.00		116	51.9	148			
Sample ID:	2.5UG GRO LCS	Samp	Type: LC	s	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e	
Client ID:	LCSW	Batc	h ID: RE	507	F	RunNo: 6	507				
Prep Date:		Analysis [Date: 1	0/25/2012	5	SeqNo: 1	87729	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	
	e Organics (GRO)	0.48	0.050			96.3	75.9	119			
Surr: BFB		21		20.00		107	51.9	148			
1											

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

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

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WO#: 1210928

02-Nov-12

Client: Project:	Southwest Largo CS	Geoscien	ice								
Sample ID:	1210928-007AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015B: Gasol	ine Rang	e	
Client ID:	MW-50	Batch	ID: R6	507	F	RunNo: 6	507				
Prep Date:		Analysis D	ate: 10	0/25/2012	5	SeqNo: 1	87749	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	0.53	0.050	0.5000	0	105	63.5	131			
Surr: BFB		23		20.00		114	51.9	148		and the second sec	
Sample ID:	1210928-007AMSD	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015B: Gasol	ine Rang	e	
Client ID:	MW-50	Batch	ID: R6	507	F	RunNo: 6	507				
Prep Date:		Analysis D	ate: 10	0/25/2012	5	SeqNo: 1	87750	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
11111111111111111111111111111111111111	e Organics (GRO)	0.48	0.050	0.5000	0	95.8	63.5	131	9.35	16.7	
Surr: BFB		22		20.00		110	51.9	148	0	0	-
Sample ID:	5ML RB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015B: Gasol	ine Rang	e	
Client ID:	PBW	Batch	ID: R6	515	F	RunNo: 6	515				
Prep Date:		Analysis D	ate: 10	0/26/2012	5	SeqNo: 1	87941	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	ND	0.050								
Surr: BFB		23		20.00		115	51.9	148			
Sample ID:	2.5UG GRO LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015B: Gasol	ine Rang	e	
Client ID:	LCSW	Batch	ID: R6	515	F	RunNo: 6	515				
Prep Date:		Analysis D	ate: 10	0/26/2012	5	SeqNo: 1	87942	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	0.44	0.050	0.5000	0	88.8	75.9	119			1
Surr: BFB		24		20.00		118	51.9	148		1.1	
Sample ID:	1210928-017AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015B: Gasol	ine Rang	e	
Client ID:	MW-47	Batch	ID: R6	515	F	RunNo: 6	515				
Prep Date:		Analysis D	ate: 10	0/26/2012	5	SeqNo: 1	87956	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	13	0.25	2.500	11.67	51.2	63.5	131			S
Surr: BFB		900		100.0		902	51.9	148			S
Sample ID:	1210928-017AMSD	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015B: Gasol	ine Rang	e	
Client ID:	MW-47	Batch	ID: R6	515	F	RunNo: 6	515				
Prep Date:		Analysis D	ate: 10	0/26/2012	5	SeqNo: 1	87957	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	13	0.25	2.500	11.67	65.1	63.5	131	2.64	16.7	100
Surr: BFB		880		100.0		885	51.9	148	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

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

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Client: Southwest Geoscience

Sample ID: 5ML RB	Samp	Гуре: МІ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBW	Batc	h ID: Re	438	F	RunNo: 6	438				
Prep Date:	Analysis [Date: 1	0/23/2012	5	SeqNo: 1	85212	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5	or re value	of it it is it is a set of the	MILO	Lowellin	rightenin	1014 0	TH DEMIN	quui
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Kylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	20		20.00		102	69.7	152			
Sample ID: 100NG BTEX LCS	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batc	h ID: Re	6438	F	RunNo: 6	438				
Prep Date:	Analysis Date: 10/23/20			5	eqNo: 185213		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19	2.5	20.00	0	95.3	66.9	136			
Benzene	20	1.0	20.00	0	102	80	120			
Toluene	21	1.0	20.00	0	103	80	120			
Ethylbenzene	21	1.0	20.00	0	104	80	120			
Xylenes, Total	63	2.0	60.00	0	105	80	120			
1,2,4-Trimethylbenzene	21	1.0	20.00	0	103	74.3	117			
1,3,5-Trimethylbenzene	21	1.0	20.00	0	106	75.8	117			
Surr: 4-Bromofluorobenzene	22		20.00		109	69.7	152			
Sample ID: 5ML RB	Samp	Гуре: МІ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBW	Batc	h ID: Re	507	F	RunNo: 6	507				
Prep Date:	Analysis [Date: 1	0/25/2012	5	SeqNo: 1	87773	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	21		20.00		105	69.7	152			
Sample ID: 100NG BTEX LCS	Samp	Type: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batc	h ID: Re	507	F	RunNo: 6	507				
Prep Date:	Analysis [Date: 1	0/25/2012	5	SeqNo: 1	87774	Units: µg/L			

Qualifiers:

Value exceeds Maximum Contaminant Level. *

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2 в Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits WO#: 02-Nov-12

1210928

Client: Southwest Geoscience

Project:

Largo CS

Sample ID: 100NG BTEX LCS	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batc	h ID: R6	507	F	RunNo: 6	507				
Prep Date:	Analysis D	Date: 10	0/25/2012	5	SeqNo: 1	87774	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	21	2.5	20.00	0	106	66.9	136			
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			
Kylenes, Total	64	2.0	60.00	0	107	80	120			
1,2,4-Trimethylbenzene	21	1.0	20.00	0	104	74.3	117			
1,3,5-Trimethylbenzene	21	1.0	20.00	0	106	75.8	117			
Surr: 4-Bromofluorobenzene	22		20.00		110	69.7	152			
Sample ID: 1210928-008AMS	Samp	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: MW-52	Batch	h ID: R6	507	F	RunNo: 6	507				
Prep Date:	Analysis D	Date: 10	0/25/2012	5	SeqNo: 1	87776	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	23	2.5	20.00	0	115	45.1	137		and the second second	100
Benzene	21	1.0	20.00	0.2600	104	74.1	124			
Toluene	21	1.0	20.00	0.1200	104	75.2	124			
Ethylbenzene	20	1.0	20.00	0.1580	102	69	125			
Xylenes, Total	63	2.0	60.00	0	105	73.1	126			
1,2,4-Trimethylbenzene	20	1.0	20.00	0.1560	98.5	63.1	121			
1,3,5-Trimethylbenzene	20	1.0	20.00	0	102	60	133			
Surr: 4-Bromofluorobenzene	22		20.00		110	69.7	152			-
Sample ID: 1210928-008AMSD	Samp	Type: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: MW-52	Batc	h ID: R6	507	F	RunNo: 6	507				
Prep Date:	Analysis D	Date: 10	0/25/2012	5	SeqNo: 1	87777	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	21	2.5	20.00	0	106	45.1	137	8.61	13.6	
Benzene	19	1.0	20.00	0.2600	93.0	74.1	124	10.7	11.2	
Toluene	19	1.0	20.00	0.1200	93.8	75.2	124	9.80	11.9	
Ethylbenzene	19	1.0	20.00	0.1580	92.0	69	125	9.72	13.5	
Xylenes, Total	57	2.0	60.00	0	95.4	73.1	126	9.32	13	
1,2,4-Trimethylbenzene	18	1.0	20.00	0.1560	89.2	63.1	121	9.85	14.7	
1,3,5-Trimethylbenzene	19	1.0	20.00	0	93.1	60	133	8.74	14	
Surr: 4-Bromofluorobenzene	22		20.00		109	69.7	152	0	0	
Sample ID: 5ML RB		ype: ME		Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBW	Batcl	h ID: R6	515	F	RunNo: 6					
Prep Date:	Analysis D	Date: 10	0/26/2012	5	SeqNo: 1	87969	Units: µg/L			

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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50

1210928 02-Nov-12

WO#:

Client: Southwest Geoscience T

Sample ID: 5ML RB	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBW	Batc	h ID: R6	515	F	RunNo: 6	515				
Prep Date:	Analysis [Date: 10	/26/2012		SeqNo: 1		Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5								
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
1,2,4-Trimethylbenzene	ND	1.0								
1,3,5-Trimethylbenzene	ND	1.0								
Surr: 4-Bromofluorobenzene	21		20.00		107	69.7	152		and the second	
Sample ID: 100NG BTEX LCS	Samp	Type: LC	S	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSW	515	F	RunNo: 6	515						
Prep Date:	Analysis [Date: 10	0/26/2012	5	SeqNo: 1	87970	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	20	2.5	20.00	0	99.8	66.9	136			
Benzene	19	1.0	20.00	0	96.3	80	120			
Toluene	20	1.0	20.00	0	97.6	80	120			
Ethylbenzene	20	1.0	20.00	0	99.3	80	120			
Xylenes, Total	62	2.0	60.00	0	103	80	120			
1,2,4-Trimethylbenzene	20	1.0	20.00	0	99.8	74.3	117			
1,3,5-Trimethylbenzene	21	1.0	20.00	0	103	75.8	117			
Surr: 4-Bromofluorobenzene	22	_	20.00		112	69.7	152			
Sample ID: 1210928-018AMS	Samp	Type: MS	6	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: MW-8	Batc	h ID: R6	515	F	RunNo: 6	515				
Prep Date:	Analysis [Date: 10	/26/2012	5	SeqNo: 1	87982	Units: µg/L			
Analyte	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	17	2.5	20.00	0	85.0	45.1	137			
Benzene	16	1.0	20.00	0.2500	79.8	74.1	124			
Toluene	17	1.0	20.00	0.2340	85.3	75.2	124			
Ethylbenzene	17	1.0	20.00	0.1960	83.2	69	125			
Xylenes, Total	54	2.0	60.00	0	89.6	73.1	126			
1,2,4-Trimethylbenzene	17	1.0	20.00	0	84.6	63.1	121			
1,3,5-Trimethylbenzene	17	1.0	20.00	0	86.7	60	133			
Surr: 4-Bromofluorobenzene	21	_	20.00		105	69.7	152			
Sample ID: 1210928-018AMSE	Samp1	Type: MS	SD	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: MW-8	Batc	h ID: R6	515	F	RunNo: 6	515				
Prep Date:	Analysis [Date: 10	/26/2012	S	SeqNo: 1	87983	Units: µg/L			
										12 1

Qualifiers:

J

Analyte

Value exceeds Maximum Contaminant Level. *

Result

PQL

Е Value above quantitation range

Analyte detected below quantitation limits

P Sample pH greater than 2 В Analyte detected in the associated Method Blank

HighLimit

%RPD

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

SPK value SPK Ref Val %REC LowLimit

R RPD outside accepted recovery limits Page 25 of 26

RPDLimit

Qual

02-Nov-12

1210928

WO#:

Client: Southwest Geoscience

Project: Largo CS

Sample ID: 1210928-018AMS	SD Samp	ype: MS	SD	TestCode: EPA Method 8021B: Volatiles									
Client ID: MW-8	Batc	h ID: R6	515	F	RunNo: 6								
Prep Date:	Analysis E	Date: 10	/26/2012	S	SeqNo: 1	87983	Units: µg/L						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Methyl tert-butyl ether (MTBE)	16	2.5	20.00	0	81.8	45.1	137	3.96	13.6				
Benzene	16	1.0	20.00	0.2500	76.6	74.1	124	4.00	11.2				
Toluene	16	1.0	20.00	0.2340	81.0	75.2	124	5.21	11.9				
Ethylbenzene	16	1.0	20.00	0.1960	79.1	69	125	4.96	13.5				
(ylenes, Total	52	2.0	60.00	0	86.1	73.1	126	3.91	13				
,2,4-Trimethylbenzene	17	1.0	20.00	0	82.6	63.1	121	2.38	14.7				
,3,5-Trimethylbenzene	17	1.0	20.00	0	84.6	60	133	2.51	14				
Surr: 4-Bromofluorobenzene	21		20.00		105	69.7	152	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

- 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

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WO#: 1210928 02-Nov-12

HALL Hall Environment ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-3 Website: www	4901 Hi Albuquerque, 975 FAX: 505	awkins NE NM 87105 -345-410;	Sample Log-In Check Lis				
Client Name: Southwest Geoscience	Work Orde	r Number.	1210928				
Received by/date: 10/19/12							
Logged By: Mishelle Garcia 10/19/2012 10:00:00	0 AM	-11	June Garines				
Completed By: Michelle Garcia 10/19/2012 10:46:13	3 AM	1	Jerule Genuie				
Reviewed By: MQAAT IN/10/12			in the second				
Chain of Custody							
1. Were seals intact?	Yes	No 🗆	Not Present				
2. Is Chain of Custody complete?	Yes a	Z No 🗆	Not Present				
3. How was the sample delivered?	Courie	5					
Log In							
	Ver F	🛛 No 🗋					
4. Coolers are present? (see 19. for cooler specific information)	Tes						
5. Was an attempt made to cool the samples?	Yes	No 🗆					
	0.00						
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes	No 🗌					
7. Sample(s) in proper container(s)?	Yes	No 🗆					
8. Sufficient sample volume for indicated test(s)?	Yes						
9. Are samples (except VOA and ONG) properly preserved?							
10. Was preservative added to bottles?	Yes [No 🗹	NA 🗆				
		a 🗆					
11. VOA vials have zero headspace? 12. Were any sample containers received broken?	ALC: NO. OF	☑ No □ □ No ☑					
13. Does paperwork match bottle labels?		No 🗆	# of preserved				
(Note discrepancies on chain of custody)			for pH:				
14. Are matrices correctly identified on Chain of Custody?			(<2 or >12 unless noted				
15. is it clear what analyses were requested? 16. Were all holding times able to be met?	Yes Yes		Adjusted?				
(If no, notify customer for authorization.)	165 1		Checked by:				
Special Handling (if applicable)							
17. Was client notified of all discrepancies with this order?	Yes	No 🗆	NA 🗹				
Person Notified: Date	:						
By Whom: Via:	eMail	Phone	e 🔲 Fax 🔄 In Person				
Regarding:							
Client Instructions:							

19. Cooler Information

.

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

Page 1 of 1

									1			(9 2)				С	HAIN OF	CUSTODY RECOP
Env Office Proje	G E ironmenta e Locatio	uth osc al a Hydrogen on Azta ger Sum Summ	IEN ologic C	NCE consultants	Laboratory: Address: A Contact: A Phone: PO/SO #: 0 Samplers Sign	dy 8 4100	- Nel	ma	n		1.000		ALYSIS L DUESTE	•				Lab use only Due Date: Temp. of coolers when received (C°): 1 2 3 4 5 Page
	1000			ame argo	25		N	o/Type	of Co	ontainer	'S	2	-	//	///		/	
latrix	Date		Comp	T	Marks of Sample(s)	Start	N Depth		/G LL	250 F	10%	5			///	///	13 Lab	210928 Sample ID (Lab Use Only)
N	10/16/1	2 1035	X	m	0-41	+-+	- 5	5			7	A	2					-001
-	T	1145	T	mu	1-32			1			ľ	11	T					002
		1230		MU	134							T						003
		1325		MW.	-43							T						att
		1425		mu	-51							1				3	-	005
	V.	1515		mw.	-40R							Π						0010
	19/17/13	0930		mw.	-50							Π						007
	1	1050		mw	-52													008
		1140	1.	mu.	-39							Π						009
	¥	1255	4	naw	-49			1			4	1	V					DID
	round time		Constant and the second second	25% Rush		100% R							Times	TNOTE	0.		No. of Concession, Name	
eling	uished by	(Signature)		Date: /if 12_ Date: Date:		ved by: (S ved by: (S ved by: (S	Signatur har	ael 1	es.	10	ate: 18/1 ate: 17/1 ate:	- 1	Time: 1400 Time: 1000 Time:		5:			3
leling	uished by	(Signature)		Date:	Time: Receiv	ved by: (S	Signatur	9)		D	ate:	1	Time:	· ·		•		
Aatrix Contair		W - Wastewater DA - 40 mi vial	,		S - Soil SD - So / Or Glass 1 Liter		Liquid 0 ml - Gla	A - A	ir Bag	g			oal tube stic or other	SL - stuc	ige O-O	8		

SOUTHWEST GEOSCIENCE • 2351 W. Northwest Hwy., Suite 3321 • Dallas, Texas 75220 • Office: 214-350-5469 • Fax 214-350-2914

1.1.1											CHAIN OF CUSTODY REC
GE	$\frac{\text{COSCI}}{\text{ger} - \frac{S4}{24}}$		Laboratory: Address: Contact: Phone: PO/SO #: Sampler's Sign	A150 ndy F 0410	 & -com 002,	ar				VSIS UESTE OGO OBOLA	Due Date:
roj. No. 04/000:	2 Prr	bject Name	15		No/	Type of (Contain	ers	E	1	
latrix Date	Time O	G I Identifying M	arks of Sample(s)	Start	NON Dept	A/G 1LL	250 mi		FA	NI	
V 10/17/12	1405	× mw	-48		~				AX	4	
	1505	mw-	38		1		•		11		-012
4	1550	ma	-36			1			1		-012
10/18/12	0900	mw	-6								
1 1	1000	mw	-13						\uparrow		
	1050	mw.	1			-		-		l'	
	1130	mw-	.47		1	1		-	\mathbb{H}		
	1225	mw-	-			1					
		111	*			-		1k		++	- 010
V		1	~	+	T	1	62	R	4	++	
Im around time	Normal	25% Rush	0 50% Rush . (100% R	ush	<u> </u>	1.4		-	4	
ninquished by i	(Signature)	Date: 10/18/12	Time: Recei	wed by: (S	Signature)	ele	- 10	Date:			NOTES:
elinquished by		Date:	Time: Aecei	ved by:	Signature)		1	Date:		Time:	
elinquished by	(Signature)	Date:	Time: Recei	ved by: (S	Signature)	-		Date:	-	Time:	

SOUTHWEST GEOSCIENCE • 2351 W. Northwest Hwy., Suite 3321 • Dallas, Texas 75220 • Office: 214-350-5469 • Fax 214-350-2914



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

November 01, 2012

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.: 1210969

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/20/2012 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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1210969 Date Reported: 11/1/2012

CLIENT: Southwest Geoscience

Project: Largo CS Lab ID: 1210969-001

=

Client Sample ID: MW-9

Collection Date: 10/19/2012 8:45:00 AM

Received Date: 10/20/2012 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E				Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/22/2012 3:16:18 PM
Surr: DNOP	122	79.5-166	%REC	1	10/22/2012 3:16:18 PM
EPA METHOD 8015B: GASOLINE RA	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	10/26/2012 11:29:18 PM
Surr: BFB	118	51.9-148	%REC	1	10/26/2012 11:29:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	10/26/2012 11:29:18 PM
Toluene	ND	1.0	µg/L	1	10/26/2012 11:29:18 PM
Ethylbenzene	ND	1.0	µg/L	1	10/26/2012 11:29:18 PM
Xylenes, Total	ND	2.0	µg/L	1	10/26/2012 11:29:18 PM
Surr: 4-Bromofluorobenzene	97.0	69.7-152	%REC	1	10/26/2012 11:29:18 PM

Matrix: AQUEOUS

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**

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1210969 Date Reported: 11/1/2012

CLIENT: Southwest Geoscience

Project: Largo CS Lab ID: 1210969-002

Client Sample ID: MW-3R Collection Date: 10/19/2012 9:30:00 AM

Received Date: 10/20/2012 10:00:00 AM

Analyses	Result	RL C	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE					Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	10/22/2012 3:41:41 PM
Surr: DNOP	126	79.5-166		%REC	1	10/22/2012 3:41:41 PM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	0.48	0.050		mg/L	1	10/26/2012 11:59:36 PM
Surr: BFB	318	51.9-148	S	%REC	1	10/26/2012 11:59:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	10/26/2012 11:59:36 PM
Toluene	ND	1.0		µg/L	1	10/26/2012 11:59:36 PM
Ethylbenzene	1.2	1.0		µg/L	1	10/26/2012 11:59:36 PM
Xylenes, Total	2.8	2.0		µg/L	1	10/26/2012 11:59:36 PM
Surr: 4-Bromofluorobenzene	129	69.7-152		%REC	1	10/26/2012 11:59:36 PM

Matrix: AQUEOUS

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH greater than 2

Reporting Detection Limit RL

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Hall Environmental Analysis Laboratory, Inc.

_

Analytical Report Lab Order 1210969 Date Reported: 11/1/2012

CLIENT: Southwest Geoscience			Client Samp	le ID: MW-1	6
Project: Largo CS		2012 10:20:00 AM			
Lab ID: 1210969-003	Matrix:	AQUEOUS	Received	Date: 10/20/	2012 10:00:00 AM
Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE				Analyst: SCC
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	10/22/2012 4:07:05 PM
Surr: DNOP	127	79.5-166	%REC	1	10/22/2012 4:07:05 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	0.38	0.050	mg/L	1	10/27/2012 12:29:42 AM
Surr: BFB	154	51.9-148	S %REC	1	10/27/2012 12:29:42 AM
EDA METHOD 9024 P. VOL ATH ES					Analyst NCD

EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene 100 10 µg/L 10 10/27/2012 5:58:55 PM Toluene ND 1.0 µg/L 1 10/27/2012 12:29:42 AM Ethylbenzene 3.9 1.0 µg/L 1 10/27/2012 12:29:42 AM Xylenes, Total ND 2.0 µg/L 1 10/27/2012 12:29:42 AM Surr: 4-Bromofluorobenzene 111 69.7-152 %REC 1 10/27/2012 12:29:42 AM

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

J Analyte detected below quantitation limits

Sample pH greater than 2 P

RL **Reporting Detection Limit**

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Analytical Report

Lab Order 1210969

Date Reported: 11/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience Client Sample ID: MW-15 **Project:** Largo CS Collection Date: 10/19/2012 11:10:00 AM 1210969-004 Lab ID: Matrix: AQUEOUS Received Date: 10/20/2012 10:00:00 AM Result Analyses **RL** Qual Units DF **Date Analyzed** EPA METHOD 8015B: DIESEL RANGE Analyst: SCC Diesel Range Organics (DRO) 10 mal 4 10/22/2012 4:32:29 PM

Dieser Range Organics (DRO)	ND	1.0		mg/L		10/22/2012 4:32:29 PM
Surr: DNOP	124	79.5-166		%REC	1	10/22/2012 4:32:29 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	2.0	0.050		mg/L	1	10/27/2012 12:59:59 AM
Surr: BFB	558	51.9-148	S	%REC	1	10/27/2012 12:59:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	400	10		µg/L	10	10/27/2012 11:31:28 PM
Toluene	ND	1.0		µg/L	1	10/27/2012 12:59:59 AM
Ethylbenzene	7.2	1.0		µg/L	1	10/27/2012 12:59:59 AM
Xylenes, Total	7.8	2.0		µg/L	1	10/27/2012 12:59:59 AM
Surr: 4-Bromofluorobenzene	180	69.7-152	S	%REC	1	10/27/2012 12:59:59 AM

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

Ρ Sample pH greater than 2

RL **Reporting Detection Limit** В 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

Analytical Report

Lab Order 1210969

Date Reported: 11/1/2012

10/27/2012 1:30:10 AM

10/27/2012 1:30:10 AM

10/27/2012 1:30:10 AM

10/27/2012 1:30:10 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience			C	lient Sample	ID: MW-7	
Project: Largo CS				Collection D	ate: 10/19/2	2012 11:55:00 AM
Lab ID: 1210969-005	Matrix:	AQUEOU	S	Received D	ate: 10/20/2	2012 10:00:00 AM
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGI	E					Analyst: SCC
Diesel Range Organics (DRO)	2.5	1.0		mg/L	1	10/22/2012 4:57:51 PM
Surr: DNOP	118	79.5-166		%REC	1	10/22/2012 4:57:51 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	32	0.50		mg/L	10	10/27/2012 1:30:10 AM
Surr: BFB	294	51.9-148	S	%REC	10	10/27/2012 1:30:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	8200	500		µg/L	500	10/28/2012 12:01:44 AM

10

10

20

69.7-152

µg/L

µg/L

µg/L

%REC

10

10

10

10

ND

130

36

133

Qualifiers:

*

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

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

Date Reported: 11/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience Client Sample ID: MW-11 Project: Largo CS Collection Date: 10/19/2012 12:35:00 PM 1210969-006 Matrix: AQUEOUS Received Date: 10/20/2012 10:00:00 AM Lab ID: Analyses Result **RL** Qual Units DF **Date Analyzed EPA METHOD 8015B: DIESEL RANGE** Analyst: SCC 10/22/2012 5:23:12 PM **Diesel Range Organics (DRO)** ND 1.0 mg/L 1 Surr: DNOP 127 79.5-166 %REC 1 10/22/2012 5:23:12 PM **EPA METHOD 8015B: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) mg/L 10/27/2012 2:31:41 AM 5.3 0.050 1 Surr: BFB 692 %REC 51.9-148 S 1 10/27/2012 2:31:41 AM

EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	1100	50		µg/L	50	10/28/2012 12:31:59 AM
Toluene	ND	1.0		µg/L	1	10/27/2012 2:31:41 AM
Ethylbenzene	11	1.0		µg/L	1	10/27/2012 2:31:41 AM
Xylenes, Total	41	2.0		µg/L	1	10/27/2012 2:31:41 AM
Surr: 4-Bromofluorobenzene	181	69.7-152	S	%REC	1	10/27/2012 2:31:41 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

WO#: 1210969

01-Nov-12

Client: Southwest Geoscience

Project: Largo	CS			
Sample ID MB-4458	SampType: MBLK	TestCode: EPA Method	8015B: Diesel Range	
Client ID: PBW	Batch ID: 4458	RunNo: 6379		
Prep Date: 10/22/2012	Analysis Date: 10/22/2012	SeqNo: 184274	Units: mg/L	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	ND 1.0		in the second second	
Surr: DNOP	1.3 1.000	128 79.5	166	and the state of the
Sample ID LCS-4458	SampType: LCS	TestCode: EPA Method	8015B: Diesel Range	
Client ID: LCSW	Batch ID: 4458	RunNo: 6379		
Prep Date: 10/22/2012	Analysis Date: 10/22/2012	SeqNo: 184275	Units: mg/L	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	4.0 1.0 5.000	0 80.7 74	157	
Surr: DNOP	0.63 0.5000	125 79.5	166	a contractor de la constante
Sample ID LCSD-4458	SampType: LCSD	TestCode: EPA Method	8015B: Diesel Range	
Client ID: LCSS02	Batch ID: 4458	RunNo: 6379		
Prep Date: 10/22/2012	Analysis Date: 10/22/2012	SeqNo: 184276	Units: mg/L	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Diesel Range Organics (DRO)	4.0 1.0 5.000	0 0 80.5 74	157 0.253	23
Surr: DNOP	0.60 0.5000) 120 79.5	166 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

- 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

Page 7 of 9

Result

Result

23

22

PQL

SampType: LCS

Batch ID: R6519

Analysis Date: 10/27/2012

PQL

Qual

Qual

Qual

Qual

Sample ID 5ML RB	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015B: Gaso	line Rang	e
Client ID: PBW	Batch	n ID: Re	515	F	RunNo: 6	515			
Prep Date:	Analysis D	ate: 1	0/26/2012	S	SeqNo: 1	87941	Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Gasoline Range Organics (GRO) Surr: BFB	ND 23	0.050	20.00		115	51.9	148		
Sample ID 2.5UG GRO LCS	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e
Client ID: LCSW	Batch	n ID: RE	515	F	RunNo: 6	515			
Prep Date:	Analysis D	ate: 1	0/26/2012	S	SeqNo: 1	87942	Units: mg/L		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Gasoline Range Organics (GRO)	0.44	0.050	0.5000	0	88.8	75.9	119		
Surr: BFB	24		20.00		118	51.9	148		
Sample ID 5ML RB	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015B: Gaso	line Rang	e
Client ID: PBW	Batch	h ID: Re	519	F	RunNo: 6	519			
Prep Date:	Analysis D	Date: 1	0/27/2012	5	SegNo: 1	88138	Units: %REC		

SPK value SPK Ref Val %REC

SPK value SPK Ref Val

20.00

20.00

Client: Southwest Geoscience

Project: Largo CS

Surr: BFB

Client ID:

Prep Date:

Surr: BFB

Analyte

Client ID: PBW Prep Date: Analyte

Sample ID 2.5UG GRO LCS

LCSW

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- P Sample pH greater than 2

Analyte detected in the associated Method Blank В

LowLimit

LowLimit

51.9

51.9

TestCode: EPA Method 8015B: Gasoline Range

112

RunNo: 6519

%REC

SeqNo: 188139

114

HighLimit

148

Units: %REC

148

HighLimit

%RPD

%RPD

RPDLimit

RPDLimit

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R

1210969

WO#:

01-Nov-12

WO#: 1210969

01-Nov-12

Project:	Largo CS										
Sample ID	5ML RB	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	PBW	Batcl	n ID: R6	515	F	RunNo: 6	515				
Prep Date:		Analysis D	ate: 1	0/26/2012	5	SeqNo: 1	87969	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-Brom	ofluorobenzene	21		20.00		107	69.7	152			
Sample ID	100NG BTEX LCS	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	LCSW	Batch	n ID: R6	515	F	RunNo: 6	515				
Prep Date:		Analysis E	ate: 1	0/26/2012	5	SeqNo: 1	87970	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		19	1.0	20.00	0	96.3	80	120			
Toluene		20	1.0	20.00	0	97.6	80	120			
Ethylbenzene		20	1.0	20.00	0	99.3	80	120			
Xylenes, Total		62	2.0	60.00	0	103	80	120			
Surr: 4-Brom	ofluorobenzene	22		20.00		112	69.7	152			_
Sample ID	5ML RB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	PBW	Batch	ID: R6	519	F	RunNo: 6	519				
Prep Date:		Analysis D	ate: 10	0/27/2012	5	SeqNo: 1	88183	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0								
Surr: 4-Brom	ofluorobenzene	21		20.00		105	69.7	152			
Sample ID	100NG BTEX LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	LCSW	Batch	D: R6	519	F	RunNo: 6	519				
Prep Date:		Analysis D	ate: 10	0/27/2012	5	SeqNo: 1	88184	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		18	1.0	20.00	0	92.3	80	120			
Curr A Drom	ofluorobenzene	23		20.00		113	69.7	152			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

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

Page 9 of 9

ENVIRONMENTAL ANALYSIS LABORATORY		4901 Hav verque, N 4X: 505-3	vkins NI M 8710 145-410	E IS I;	Sample Log-In Check List
Client Name: Southwest Geoscience		rk Order	Numbe	ər: '	1210969
Received by/date: AF	10/20/13			~ `	
Logged By: Michelle Garcia	10/20/2012 10:00:00 AM		-	rμ	inelle Garries
Completed By: Michelle Garcia	10/22/2012 8:35:28 AM		4	mi	well Comins
Reviewed By:	10/22/2012				5 A 4
Chain of Custody	, ,				
1. Were seals intact?		Yes	No [Not Present
2. Is Chain of Custody complete?		Yes 🗹	No [Not Present
3. How was the sample delivered?		Courier			
og In					
4. Coolers are present? (see 19. for cooler s	pecific Information)	Yes 🗹	No [
5. Was an attempt made to cool the samples	s?	Yes 🗹	No [
6. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No [
7. Sample(s) in proper container(s)?		Yes 🗹	No [
8. Sufficient sample volume for indicated tes		Yes 🗹			
9. Are samples (except VOA and ONG) prop		Yes 🗹			
10. Was preservative added to bottles?		Yes 🗌	No b		NA 🗆
11, VOA vials have zero headspace?		Yes 🗹	No [No VOA Vials
12. Were any sample containers received bro	ken?	Yes 🗆	No B	~	
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No [# of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain		Yes 🗹			(<2 or >12 unless noted)
15. Is it clear what analyses were requested?		Yes 🗹			Adjusted?
16. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	NOL		Checked by:
Special Handling (If applicable)					
17. Was client notified of all discrepancies with	h this order?	Yes 🗆	No [NA 🗹
Person Notified: By Whom: Regarding: Client Instructions:	Date: Via:	eMail (] Pho	one	Fax In Person

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

		-		*		š.,						•								81		Cł	HAIN	OF	CUSTODY RECOR
Offic Proj	ect Ma	E E nenta catio	uth osc $u \in HydrogenA \ge 0ger Su$		Engle C		: E ultants	- F	onta onta hone	atory:	ndy	Q Fi	EL.		n		10.55	IALYSIS EQUEST	副 / /						Lab use only Due Date: Temp. of coolers <. & ` when received (C°): 1 2 3 4 5 Page of
Proj.	710	DC	2	Proj	ject N	lame	90	C	5				No/T	ype of (Contair	ners	0	TW			/ /.		/		
Matrix	the state	1	Time	CoEo	Grab	Ide	ntifying	y Mark	s of Sa	umple(s)	Start	Depth	VOA	A/G 1LL	250 mi	P/0	A	E			//	//	/	7.	210969 ample ID (Lab Use Only)
Ŵ	10/19	12	ORKS	-F	X		nu						5				x	X		\uparrow	11	1			-001
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			1020			-	14	-	•								Π								603
			1110			10.0	nW		15																004
			11.55			1.	nw		7,													l			205
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							*			K	A.S.	FS												•.•. •	
Turn (round	time	Anor	mai		25%	Rush		50% R	ush C	100%	Rush											-	_	
Relin	juished Worth	by (Signature)				In	152 152 172	me:	Receiver	ved by: Uet by: Med by: ved by:	(Signa (Signa	ture)	etei	2 /	Date Date / d 2 Date	1/2	Time: /52.5 Time: 10 ;00 Time:	NOTES:						
Relin	quished	l by (Signature)			Date	e:	П	me:	Receiv	ved by:	(Signa	ture)			Date		Time:							
Matrix Conta		WW VO	V - Wastewa A - 40 ml via	ter 1			Vater - Ambe	s r/or	- Soll	SD - So		- Liqui	d A Glass	- Air Ba	ag	C.	- Char	coal tube	SL - sludge	0-0)II	-		-	

SOUTHWEST GEOSCIENCE • 2351 W. Northwest Hwy., Suite 3321 • Dallas, Texas 75220 • Office: 214-350-5469 • Fax 214-350-2914



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

October 31, 2012

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.: 1210935

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/19/2012 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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Date Reported: 10/31/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Southwest Geoscience			Client Sampl	e ID: MW-4	1			
Project:	Largo CS			Collection 1	Date: 10/16/	2012 10:35:00 AM			
Lab ID:	1210935-001	Matrix:	AQUEOUS	Received Date: 10/19/2012 10:00:00 AM					
Analyses		Result	RL Qu	al Units	DF	Date Analyzed			
SM2540C	MOD: TOTAL DISSOLVED	SOLIDS				Analyst: KS			
Total Dis	solved Solids	30200	1000	mg/L	1	10/25/2012 7:55:00 AN			

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/31/2012

CLIENT:	Southwest Geoscience			Client Sampl	e ID: MW-4	43
Project:	Largo CS			Collection 1	Date: 10/16/	2012 1:25:00 PM
Lab ID:	1210935-002	Matrix:	AQUEOUS	Received I	2012 10:00:00 AM	
Analyses		Result	RL Qu	al Units	DF	Date Analyzed
SM2540C	MOD: TOTAL DISSOLVED	SOLIDS				Analyst: KS
Total Dis	solved Solids	7630	200	mg/L	1	10/25/2012 7:55:00 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**

- В 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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/31/2012

CLIENT:	Southwest Geoscience		Client Sample ID: MW-40R							
Project:	Largo CS			Collection	Date: 10/16/	2012 3:15:00 PM				
Lab ID:	1210935-003	Matrix:	AQUEOUS	Received	Date: 10/19/	2012 10:00:00 AM				
Analyses		Result	RL Q	ual Units	DF	Date Analyzed				
SM2540C	MOD: TOTAL DISSOLVED	SOLIDS				Analyst: KS				
Total Dis	solved Solids	7930	200	mg/L	1	10/25/2012 7:55:00 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.

Date Reported: 10/31/2012

CLIENT:	Southwest Geoscience	Client Sample ID: MW-52							
Project:	Largo CS			Collection I	Date: 10/17/	2012 10:50:00 AM			
Lab ID:	1210935-004	Matrix:	AQUEOUS	Received I	Date: 10/19/	2012 10:00:00 AM			
Analyses		Result	RL Qual	Units	DF	Date Analyzed			
SM25400	MOD: TOTAL DISSOLVED	SOLIDS				Analyst: KS			
Total Dis	solved Solids	27000	1000	mg/L	1	10/25/2012 7:55:00 AN			

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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/31/2012

CLIENT:	Southwest Geoscience		Client Sample ID: MW-38							
Project:	Largo CS			Collection]	Date: 10/17/	2012 3:05:00 PM				
Lab ID:	1210935-005	Matrix:	AQUEOUS	Received I	Date: 10/19/	2012 10:00:00 AM				
Analyses		Result	RL Qua	l Units	DF	Date Analyzed				
SM2540C	MOD: TOTAL DISSOLVED	SOLIDS				Analyst: KS				
Total Dis	solved Solids	3000	40.0	mg/L	1	10/25/2012 7:55:00 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

Analytical Report Lab Order 1210935 Date Reported: 10/31/2012

Hall Environmental Analysis Laboratory, Inc.

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CLIENT:	Southwest Geoscience		Client Sample ID: MW-6							
Project:	Largo CS				Collection I	Date: 10/18/	2012 9:00:00 AM			
Lab ID:	1210935-006	Matrix:	AQUEOU	S	Received I	Date: 10/19/	2012 10:00:00 AM			
Analyses	Bernet	Result	RL	Qual	Units	DF	Date Analyzed			
SM2540C	MOD: TOTAL DISSOLVED	SOLIDS					Analyst: KS			
Total Diss	solved Solids	8420	200		mg/L	1	10/25/2012 7:55:00 AM			

Qualifiers:

٠

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

Sample pH greater than 2 P

RL Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

WO#: 1210935

31-Oct-12

Client: South Project: Large	west Geoscience CS			
Sample ID MB-4469	SampType: MBLK	TestCode: SM2540C M	OD: Total Dissolved Solids	
Client ID: PBW	Batch ID: 4469	RunNo: 6465		
Prep Date: 10/23/2012	Analysis Date: 10/25/2012	SeqNo: 185898	Units: mg/L	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual
otal Dissolved Solids	ND 20.0			
Sample ID LCS-4469	SampType: LCS	TestCode: SM2540C M	OD: Total Dissolved Solids	
Client ID: LCSW	Batch ID: 4469	RunNo: 6465		
Prep Date: 10/23/2012	Analysis Date: 10/25/2012	SeqNo: 185899	Units: mg/L	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual
Total Dissolved Solids	1010 20.0 1000	0 101 80	120	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- 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

ENVIRONMENTAL ANALYSIS LABORATORY 7EL: 50	Nironmental A Albuq 05-345-3975 F site: www.hall	4901 werque AX: 50	Hanr NA)5-34	kins 4 871 45-41	VE 05 07	Sample Log-In Check List
Client Name: Southwest Geoscience	w	ork Ord	der 1	Numl	ber:	1210935
Received by/date: MG 10/m/12						
	10:00:00 AM	A			O.	4194 go
Completed By: Lindsay Mangin 10/19/2012	2:00:27 PM				A	utto
Reviewed By:	9)12				0	
Chain of Custody						
1. Were seals intact?		Yes	* 1	No	2	Not Present 🖌
2. Is Chain of Custody complete?		Yes	~	No		Not Present
How was the sample delivered?		Cour	ier			
Log In						
4. Coolers are present? (see 19. for cooler specific information	ation)	Yès	~	No		NA
5. Was an attempt made to cool the samples?		Yes	V	No		NA
6. Were all samples received at a temperature of >0° C to	o 6.0°C	Yes	~	No		NA
7. Sample(s) in proper container(s)?		Yes	~	No		
8. Sufficient sample volume for indicated test(s)?		Yes	×	No		
9. Are samples (except VOA and ONG) properly preserved	d?	Yes	~	No	1	
10. Was preservative added to bottles?		Yes		No	V	NA
11, VOA vials have zero headspace?		Yes	5	No	•	No VOA Vials 🖌
12. Were any sample containers received broken?		Yes		No	1	
 Does paperwork match bottle labels? (Note discrepancies on chain of custody) 		Yes	~	No		# of preserved bottles checked for pH:
14. Are matrices correctly identified on Chain of Custody?		Yes	~	No	:	(<2 or >12 unless noted)
15. Is it clear what analyses were requested?		Yes	~	No	- 40	Adjusted?
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes	~	No	4	Checked by:
Special Handling (if applicable)						
17. Was client notified of all discrepancies with this order?		Yes		No		NA 🗸
Person Notified:	Date:					
By Whom:	Via:	· eMa	il	PI	hone	Fax In Person
Regarding:						
Client Instructions:						
18. Additional remarks:						
19. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intact S 1 1.0 Good Yes	Seal No S	eal Da	te		Sign	ed By
Page 1 of 1						

							CHAIN OF CUSTODY RECOF
Southwes Environmental & Hydrogeologic Consulta Diffice Location A2BC Project Manager Summer Summ	Address: <u>A</u> Contact: <u>A</u> Phone: PO/SO #: <u>O</u>	dy Fre 41000		•	ANALYSIS REQUESTED		Lab use only Due Date: Temp. of coolers /. () when received (C°): 1 2 3 4 5 Pageof
roj. No. 04/0042 Project Name	oCS		No/Type of	Containers			1210935
	ying Marks of Sample(s)	Start Depth Depth	VOA AG				Lab Sample ID (Lab Use Only)
N 10/16/12 1035 X M	W-41			X	XIII		-001
	W-43			1			-004/2
1515 M	W-40R						- 00163
	W-52						-0084
	W-38						- 0025
10/18/12 0900 ¥ M.	W-6			V			-0046
				NE	C		
			27	4rr			
			np				
urn aroupd time / Winormal 25% Ru	sh 🗆 50% Rush 🖸 1	100% Rush		-			
telinguished by (Signature)		d by: (Signat	ibela		2/12 1400	NOTES:	
Allinguished by (Signature) Date: Mustime // Allen 10/19/12 Relinquished by (Signature) Date:	-1718 Mi	d by: (Signat <u>Mile</u> d by: (Signat	1/2	0// 0// 0al	5/12/000		
Relinquished by (Signature) Date:	Time: Receive	d by: (Signat	ure)	Dai	e: Time:		
Matrix WW - Wastewater W - Wa Container VOA - 40 ml vial A/G - A	ter S - Soil SD - Solid mber / Or Glass 1 Liter	1 L - Liquid 250 ml - 0	A - Air E Glass wide m	Bag C nouth F	- Charcoal tube //O - Plastic or other	SL - sludge O - Oil	

SOUTHWEST GEOSCIENCE • 2351 W. Northwest Hwy., Suite 3321 • Dallas, Texas 75220 • Office: 214-350-5469 • Fax 214-350-2914