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Enterprise Products

ENTERPRISE PRODUCTS PARTNERS L.P.
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(General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

March 5, 2012

Return Receipt Requested
7010 1870 0001 2945 3514

Mr. Glenn von Gonten
New Mexico Energy, Minerals & Natural Resources
Department - Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Attn: Jim Griswold

Re: Quarterly Groundwater Monitoring Report
K-51 Pipeline Release Site
Off County Road 537
NE ¼ Section 34 & NW ¼, Sec 35, T26N, R6W
Rio Arriba County, New Mexico

Dear Mr. Von Gotten:

Enterprise Field Services, LLC (Enterprise) is submitting two (2) copies of the enclosed *Quarterly Groundwater Monitoring Report,* dated January 31, 2012. This report documents the results of the December 2011 quarterly groundwater monitoring event at this release site. Groundwater constituent concentrations at three monitoring locations exceeded applicable New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards* during this monitoring event.

An estimated 10 barrel release of natural gas condensate occurred at this location on April 13, 2010. Following initial response actions, investigations were conducted to determine the extent of affected soil and groundwater at the release site during June 2010 and April 2011. The results of these investigations have been submitted to the OCD. In addition, initial site remediation of affected soil and groundwater by *insitu* injection of chemical oxidation treatment chemicals was performed during May 2011.

Enterprise also recently submitted a proposed *Supplemental Site Investigation Work Plan* to the New Mexico Oil Conservation Department (OCD), in correspondence dated February 23, 2012. This work plan recommended installation of additional monitor wells downgradient of existing monitor well MW-14 to complete delineation of dissolved-phase groundwater constituents at the release site.

If you have any questions concerning the enclosed report, please do not hesitate to contact me at (713) 381-2286, or via email at drsmith@eprod.com.

Sincerely,

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

Rodney M. Sartor, REM
Manager, Remediation

/dep
Enclosures (2) – *Quarterly Groundwater Monitoring Report*

cc: Mr. Brandon Powell, NMOCD

P. O. BOX 4324
HOUSTON, TX 77210-4324
713.381.6500

1100 LOUISIANA STREET
HOUSTON, TX 77002-5227
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Mr. Glenn von Gonten
New Mexico Energy, Minerals & Natural Resources
Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, NM 87505

PS Form 3800, August 2006 See Reverse for Instructions

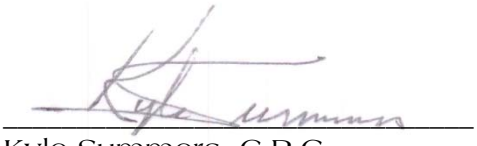
QUARTERLY GROUNDWATER MONITORING REPORT
(December 2011 Event)

Property:

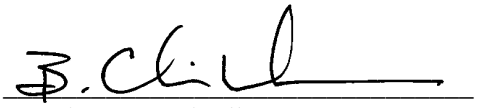
K-51 Pipeline Release
Sections 34 and 35, T26N, R6W
Rio Arriba County, New Mexico
SWG Project No. 0410003
January 31, 2012

Prepared for:
Enterprise Field Services, LLC
1100 Louisiana Street
Houston, Texas 77002
Attention: Mr. David R. Smith, P.G.

PREPARED BY:



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



B. Chris Mitchell, P.G.
Principal Geoscientist

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606 S. Rio Grande Avenue
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Aztec, NM 87410
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Fax: (505) 334-5204

TABLE OF CONTENTS

QUARTERLY GROUNDWATER MONITORING REPORT
(December 2011 Event)

K-51 Pipeline Release
Sections 34 and 35, T26N, R6W
Rio Arriba County, New Mexico

SWG Project No. 0410003

1.0 INTRODUCTION

1.1 Site Description & Background

The K-51 pipeline release site is located at the boundary of Sections 34 and 35, Township 26 North, Range 6 West, in Rio Arriba County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site consists of silty/sandy canyon bottomland with native grasses, and is crossed by a natural gas pipeline operated by Enterprise Field Services, LLC (Enterprise).

On April 13, 2010, approximately 10 barrels of natural gas condensate were released from the Enterprise natural gas gathering pipeline at the Site, due to internal corrosion. Subsequent to the completion of excavation and off-site disposal of petroleum hydrocarbon affected soils, confirmation soil samples were collected from the excavation by Souder, Miller and Associates (SMA). In addition, one (1) groundwater sample was collected from the groundwater which recharged into the excavation. The excavation was then backfilled with unaffected soils.

In June 2010, eight (8) soil borings (BH-1 through BH-8) were advanced on-site by LT Environmental (LTE). Subsequent to advancement, four (4) of the soil borings were converted to groundwater monitoring wells (MW-1 through MW-4). Based on the results of soil and groundwater sampling activities, constituent of concern (COC) concentrations were identified in soil above the New Mexico Energy, Minerals and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels* (RALs) and in groundwater above the New Mexico Water Quality Control Commission (WQCC) *Groundwater Quality Standards (GQSs).*

During April 2011, nine (9) soil borings (SB-9, SB-10, MW-11 through MW-14, SB-15, MW-16, and MW-17) were advanced in and around the former K-51 release area to further evaluate the extent of dissolved phase COCs in groundwater. Additionally, fifteen (15) injection points were installed to allow In-Situ Chemical Oxidation (ISCO) of the COCs. ISCO activities were performed during May 2011. During the initial portion of the treatment, the formation was prepared for contaminant oxidation by inoculating the treatment area with an alkaline oxidative de-ionizing solution. This served as a wetting agent, de-ionizing clay platelets and optimizing aqueous reagent contact with contaminants. An aqueous solution containing sodium percarbonate and sodium persulfate was injected through the fifteen (15) injection points. The pre-oxidation alkaline de-ionizing solution also served as a persulfate catalyst (producing sulfate

radicals).

The second portion of the treatment was conducted within twenty four (24) hours after injecting the de-ionizing/catalyst solution. During these activities, the treatment area was inoculated using VeruSolve-HP™ aqueous reagent as a Surfactant-Enhanced In-Situ Chemical Oxidation (S-ISCO™) Coelution Technology™. VeruSOLVE-HP™ is a stabilized surfactant-cosolvent/oxidant combination effective for surgical destruction of source term contaminants. Because the rate of partitioning of contaminants into the aqueous phase determines the overall rate of reaction, as the concentration of stabilized surfactant-cosolvent fraction is increased, the partitioning and subsequent rate of chemical oxidation is increased. VeruTEK's stabilized surfactant-cosolvent/oxidant blend achieves Winsor Type I solubilization, where the contaminant is solubilized as a single-phase micro-emulsion and dissolution of constituents occur without mobilization. This allows for the destruction of the contaminants that are currently in a non-aqueous phase (i.e. the source term). The resulting redox reaction will occur over a very long period of time. Reaction kinetics are controlled, sustaining a highly oxidative environment for weeks. Extended persistence greatly increases the contaminant-oxidant contact occurrence, thereby producing very favorable results.

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

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.

1.2 Scope of Work

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

A Site Vicinity Map is included as Figure 2, and a Site Map, which indicates the approximate locations of the monitoring wells in relation to pertinent structures and general Site boundaries, is included as Figure 3 of Appendix A.

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 on December 13th, 2011 by Jordon Dubuisson, a SWG environmental professional.

SWG's groundwater sampling program consisted of the following:

- Collection of one groundwater sample from each monitoring well utilizing low-flow sampling techniques.

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). LNAPL was not observed in any of the Site monitoring wells.

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

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

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 prepared containers, sealed with custody tape and placed on ice in a cooler secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

3.0 LABORATORY ANALYTICAL PROGRAM

The groundwater samples collected from the monitoring wells during the groundwater sampling 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.

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

Analysis	Sample Type	No. of Samples	Method
TPH GRO/DRO	Groundwater	10	SW-846# 8015M
BTEX	Groundwater	10	SW-846# 8021B

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

4.0 GROUNDWATER FLOW DIRECTION

The monitoring wells have been surveyed to determine 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 west-northwest. The observed gradient during this monitoring event was approximately 0.008 ft/ft across the Site.

Groundwater measurements collected during the most recent gauging event in December 2011 are presented with TOC elevations in Table 2, Appendix B. A groundwater gradient map depicting the most recent gauging data 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 practical quantitation limits (PQLs) associated with the groundwater samples collected from monitoring wells during the December

2011 sampling event to the New Mexico WQCC *Groundwater Quality Standards*. The results of the groundwater sample analyses are summarized in Table 1 of Appendix B. A Groundwater Quality Exceedance Zone map is provided as Figure 5 of Appendix A.

Benzene, Toluene, Ethylbenzene, and Xylenes

The groundwater samples collected from monitoring wells MW-2, MW-3, MW-11, MW-12, MW-13, MW-16 and MW-17 during the December 2011 sampling event did not exhibit benzene, toluene, ethylbenzene or xylenes concentrations above the laboratory PQls, which were below the respective WQCC *Groundwater Quality Standards*.

The groundwater samples collected from monitoring wells MW-1, MW-4 and MW-14 during the December 2011 sampling event exhibited benzene concentrations ranging from 84 µg/L to 260 µg/L, which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater sample collected from monitoring well MW-1 exhibited a xylene concentration of 650 µg/L, which exceeds the WQCC *Groundwater Quality Standard* of 620 µg/L.

6.0 FINDINGS

During December 2011, SWG conducted a quarterly groundwater monitoring event at the K-51 Pipeline release site. The Site is located at the boundary of Sections 34 and 35, Township 26 North, Range 6 West, in Rio Arriba County, New Mexico. The Site consists of silty/sandy canyon bottomland with native grasses, and is crossed by a natural gas pipeline operated by Enterprise.

- During the completion of the sampling event, one (1) groundwater sample was collected from each monitoring well utilizing low-flow sampling techniques.
- The groundwater samples collected from monitoring wells MW-2, MW-3, MW-11, MW-12, MW-13, MW-16 and MW-17 during the December 2011 sampling event did not exhibit benzene, toluene, ethylbenzene or xylenes concentrations above the laboratory PQLs, which were below the respective WQCC *Groundwater Quality Standards*.
- The groundwater samples collected from monitoring wells MW-1, MW-4 and MW-14 during the December 2011 sampling event exhibited benzene concentrations ranging from 84 µg/L to 260 µg/L, which exceed the WQCC *Groundwater Quality Standard* of 10 µg/L.
- The groundwater sample collected from monitoring well MW-1 exhibited a xylene concentration of 650 µg/L, which exceeds the WQCC *Groundwater Quality Standard* of 620 µg/L.
- Overall, BTEX concentrations in groundwater across the site continue to decline.

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; and,
- Pursuant to the completion of supplemental site investigation activities, continue the evaluation and execution of corrective actions to 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*.

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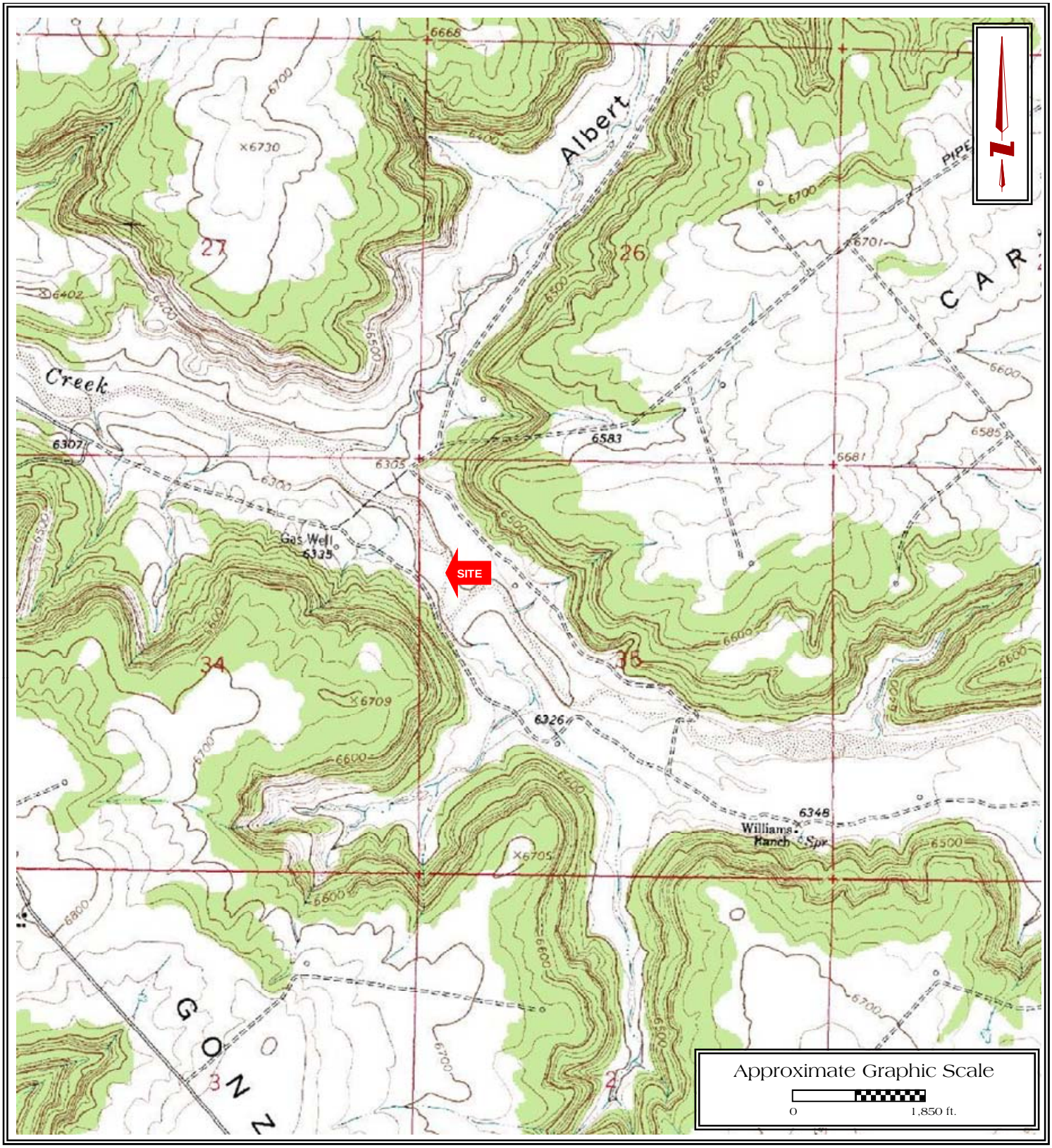
APPENDIX A

Figures



K-51 Pipeline Release

N36° 26' 47.77"; W107° 26' 46.04"

Off County Road 537

Rio Arriba, New Mexico

SWG Project No. 0410003

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FIGURE 1

Topographic Map

Gonzales Mesa, NM Quadrangle

Contour Interval - 10 Feet

K-51 Pipeline Release

N36° 26' 47.77"; W107° 26' 46.04"

Off County Road 537

Rio Arriba, New Mexico

SWG Project No. 0410003

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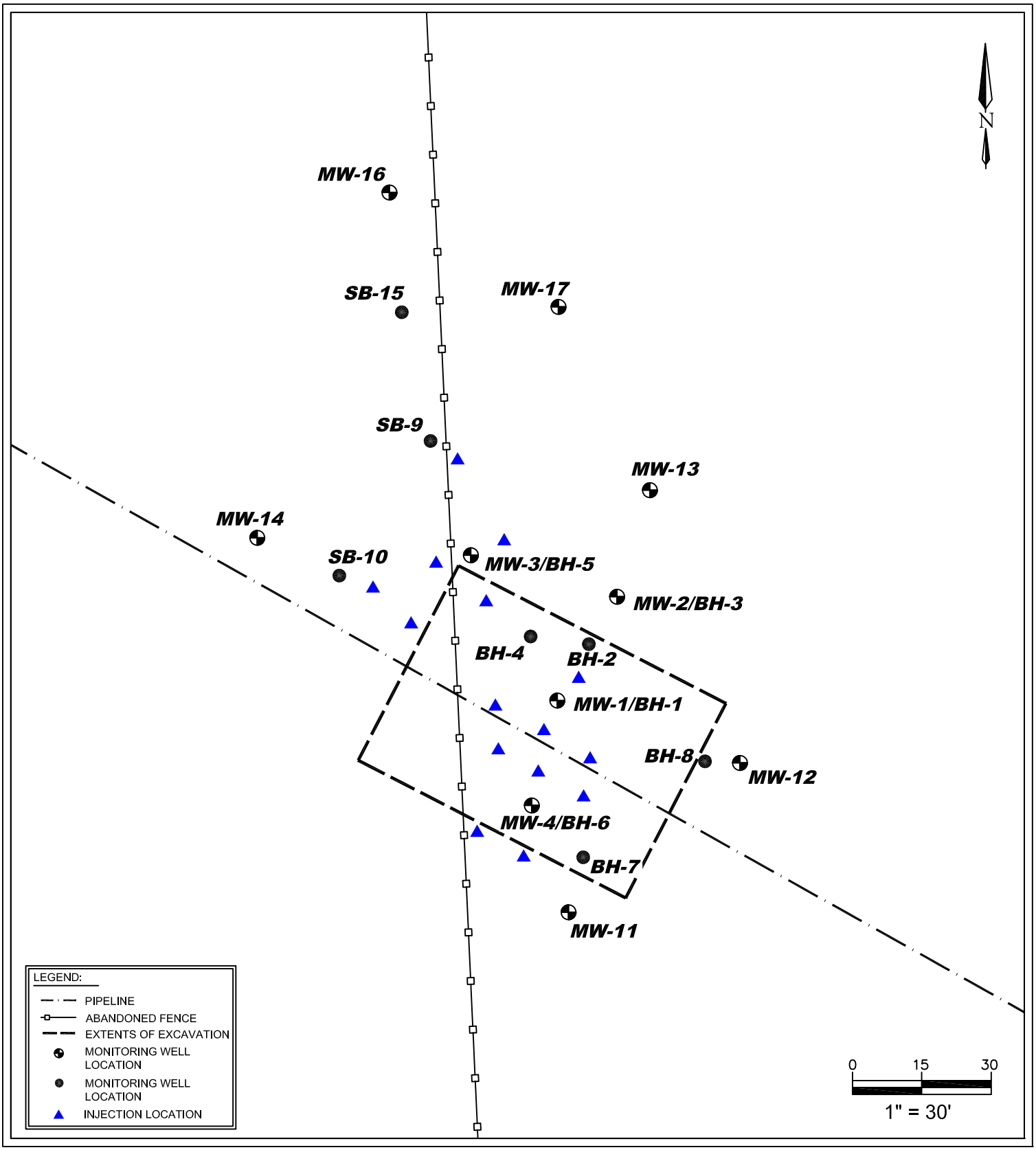
FIGURE 2

Site Vicinity Map

2005 Aerial Photograph



K-51 Pipeline Release
N35° 26' 47.77"; W107° 26' 46.04"
Off County Road 537
Rio Ariba County, New Mexico

SWG Project No. 0410003

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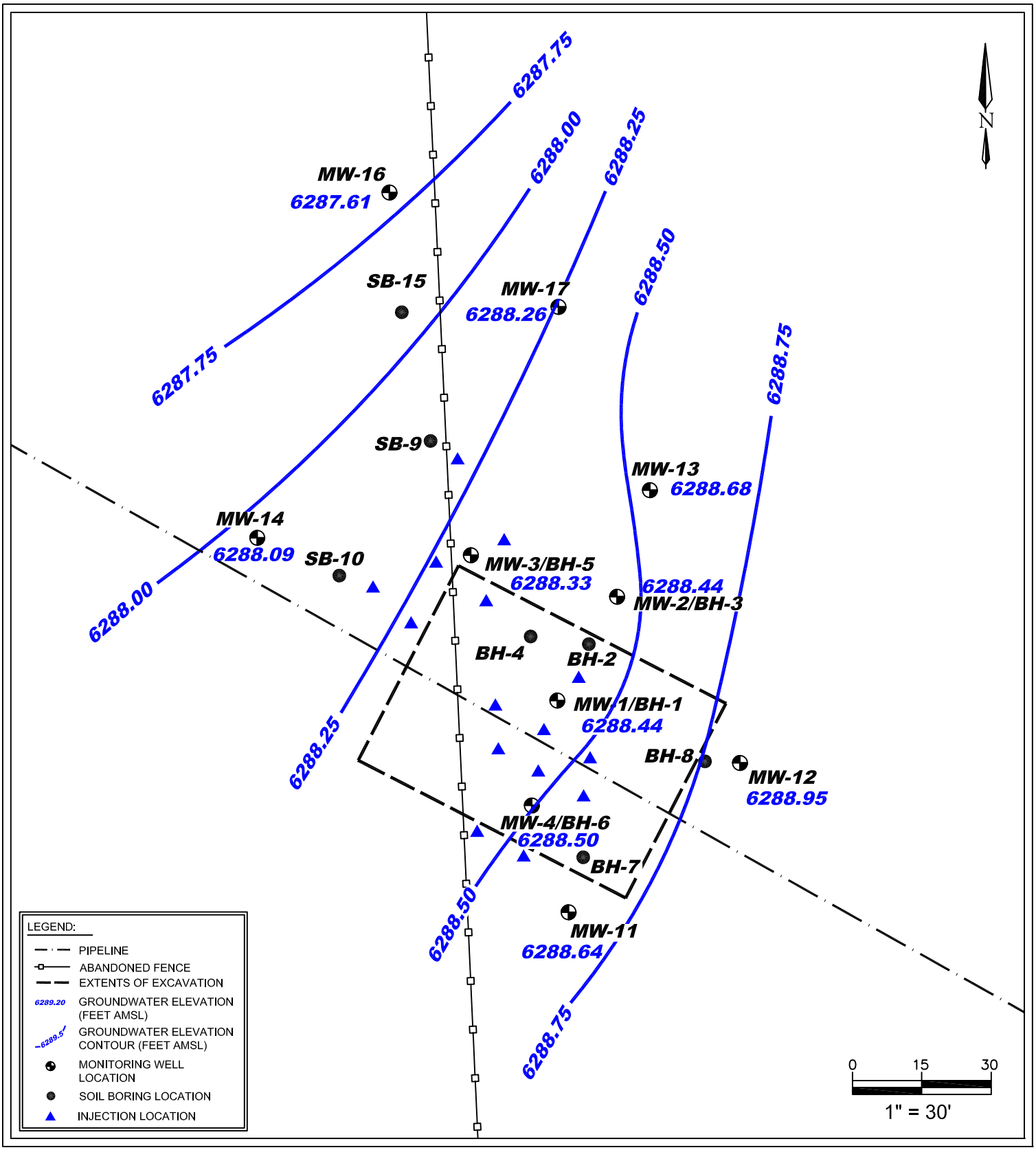
FIGURE 3

SITE MAP



K-51 Pipeline Release
N35° 26' 47.77"; W107° 26' 46.04"
Off County Road 537
Rio Ariba County, New Mexico

SWG Project No. 0410003

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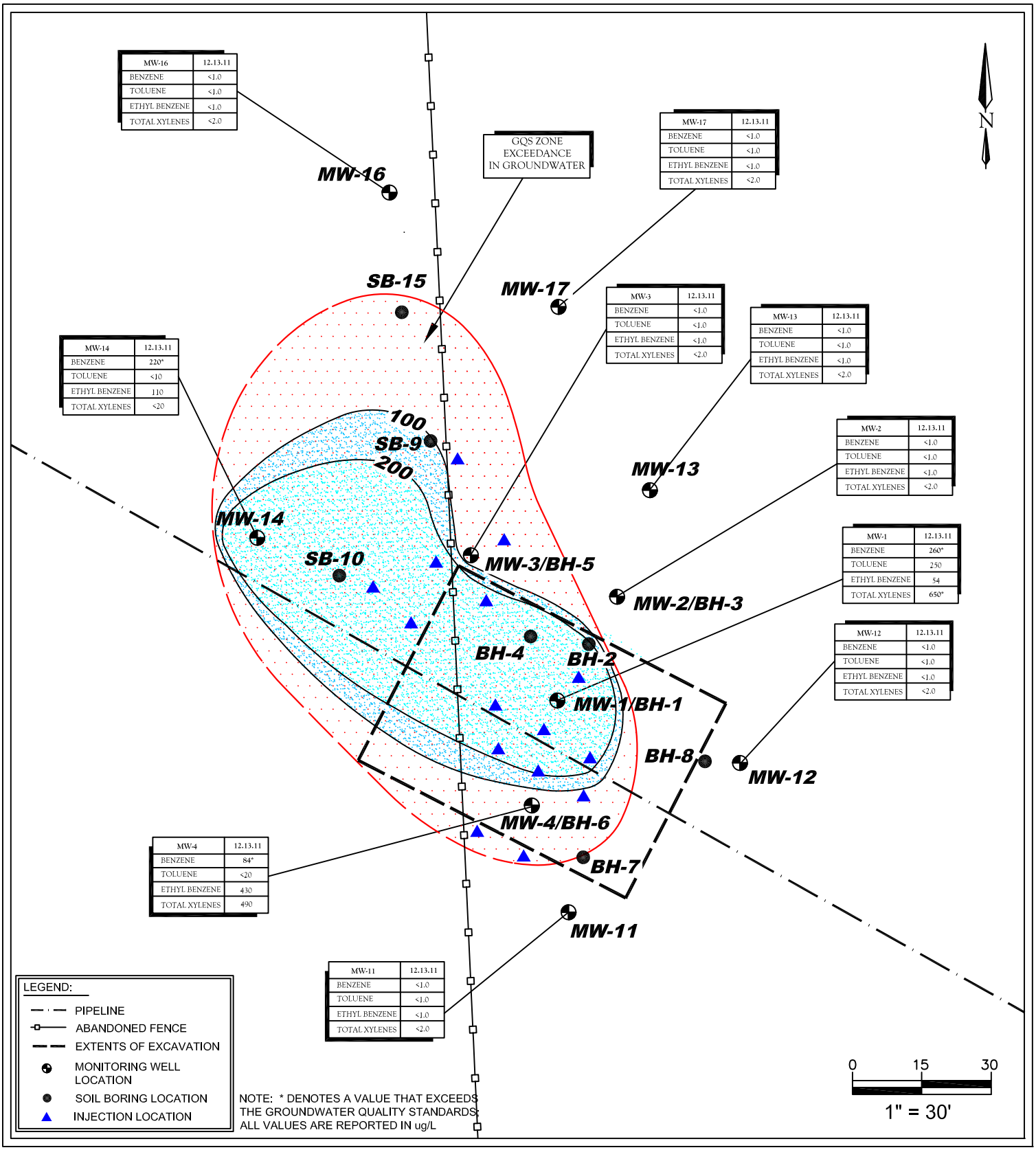
FIGURE 4

GROUNDWATER GRADIENT MAP

DECEMBER 2011



K-51 Pipeline Release
N35° 26' 47.77"; W107° 26' 46.04"
Off County Road 537
Rio Ariba County, New Mexico

SWG Project No. 0410003

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FIGURE 5

GROUNDWATER QUALITY STANDARD (GQS) EXCEEDANCE ZONE IN GROUNDWATER MAP

DECEMBER 13, 2011

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APPENDIX B

Tables

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TABLE 1
K-51 PIPELINE RELEASE
GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commmission Groundwater Quality Standards		10	750	750	620	NE	NE
SMA Data from Open Excavation							
Excavation	4.21.10	**7,000**	**13,000**	540	**5,200**	NA	NA
SWG Groundwater Samples							
MW-1	6.21.10	**8,400**	**1,300**	560	**4,200**	NA	NA
	9.24.10	**2,300**	28	200	520	8.4	<1.0
	4.21.11	**430**	<20	120	60	2.1	<1.0
	6.21.11	**820**	370	33	140	5.1	130
	9.22.11	**690**	**1,200**	120	**1,200**	8.9	30
	12.13.11	**260**	250	54	**650**	3.4	<1.0
MW-2	6.21.10	**200**	53	14	96	NA	NA
	9.24.10	2.3	<1.0	<1.0	<2.0	<0.050	<1.0
	4.21.11	3.3	<1.0	<1.0	<2.0	0.065	<1.0
	6.21.11	2.2	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-3	6.21.10	**640**	57	72	**1,000**	NA	NA
	9.24.10	**150**	<1.0	16	28	0.48	<1.0
	4.21.11	**52**	<1.0	17	10	0.25	<1.0
	6.21.11	**62**	14	13	160	0.67	<1.0
	9.22.11	3	<1.0	8.7	<2.0	0.066	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-4	6.21.10	**3,600**	**10,000**	600	**6,600**	NA	NA
	9.24.10	**870**	**870**	260	**1,600**	12	1
	4.21.11	**670**	<20	520	**790**	6.3	<1.0
	6.21.11	**17**	22	36	77	0.64	1.1
	9.22.11	**62**	140	220	**820**	3.8	1.2
	12.13.11	**84**	<20	430	490	2.6	<1.0
MW-11	4.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-12	4.21.11	1.9	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	4.6	<1.0	<1.0	<2.0	0.063	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-13	4.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
MW-14	4.21.11	**2,800**	<100	280	**720**	8.7	<1.0
	6.21.11	**470**	<10	37	210	1.9	<1.0
	9.22.11	**540**	<10	100	36	1.7	<1.0
	12.13.11	**220**	<10	110	<20	1.0	<1.0
MW-16	4.21.11	4.4	<2.0	<2.0	<4.0	<0.10	<1.0
	6.21.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	0.065	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	0.12	<1.0
MW-17	4.21.11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	6.21.11	<2.0	<2.0	<2.0	<4.0	<0.10	<1.0
	9.22.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0
	12.13.11	<1.0	<1.0	<1.0	<2.0	<0.050	<1.0

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

NA = Not Analyzed

NE = Not Established

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TABLE 2
K-51 Pipeline Release
GROUNDWATER ELEVATIONS

Well I.D.	Date	Depth to Product (feet BTOC)	Depth to Water (feet BTOC)	Product Thickness	TOC Elevations (feet AMSL)	Groundwater Elevation* (feet AMSL)
MW-1	4.21.11	ND	11.80	ND	6300.89	6289.09
MW-1	6.21.11	ND	12.16	ND	6300.89	6288.73
MW-1	9.22.11	ND	12.92	ND	6300.89	6287.97
MW-1	12.13.11	ND	12.45	ND	6300.89	6288.44
MW-2	4.21.11	ND	10.55	ND	6299.82	6289.27
MW-2	6.21.11	ND	11.87	ND	6299.82	6287.95
MW-2	9.22.11	ND	11.86	ND	6299.82	6287.96
MW-2	12.13.11	ND	11.38	ND	6299.82	6288.44
MW-3	4.21.11	ND	11.30	ND	6300.22	6288.92
MW-3	6.21.11	ND	11.64	ND	6300.22	6288.58
MW-3	9.22.11	ND	12.45	ND	6300.22	6287.77
MW-3	12.13.11	ND	11.89	ND	6300.22	6288.33
MW-4	4.21.11	ND	11.90	ND	6300.91	6289.01
MW-4	6.21.11	ND	12.18	ND	6300.91	6288.73
MW-4	9.22.11	ND	12.90	ND	6300.91	6288.01
MW-4	12.13.11	ND	12.41	ND	6300.91	6288.50
MW-11	4.21.11	ND	11.98	ND	6301.19	6289.21
MW-11	6.21.11	ND	12.40	ND	6301.19	6288.79
MW-11	9.22.11	ND	13.07	ND	6301.19	6288.12
MW-11	12.13.11	ND	12.55	ND	6301.19	6288.64
MW-12	4.21.11	ND	8.96	ND	6299.08	6290.12
MW-12	6.21.11	ND	9.42	ND	6299.08	6289.66
MW-12	9.22.11	ND	10.82	ND	6299.08	6288.26
MW-12	12.13.11	ND	10.13	ND	6299.08	6288.95
MW-13	4.21.11	ND	9.07	ND	6298.27	6289.20
MW-13	6.21.11	ND	9.51	ND	6298.27	6288.76
MW-13	9.22.11	ND	10.15	ND	6298.27	6288.12
MW-13	12.13.11	ND	9.59	ND	6298.27	6288.68
MW-14	4.21.11	ND	12.54	ND	6301.20	6288.66
MW-14	6.21.11	ND	12.88	ND	6301.20	6288.32
MW-14	9.22.11	ND	13.53	ND	6301.20	6287.67
MW-14	12.13.11	ND	13.11	ND	6301.20	6288.09
MW-16	4.21.11	ND	12.06	ND	6299.89	6287.83
MW-16	6.21.11	ND	12.26	ND	6299.89	6287.63
MW-16	9.22.11	ND	12.57	ND	6299.89	6287.32
MW-16	12.13.11	ND	12.28	ND	6299.89	6287.61
MW-17	4.21.11	ND	9.90	ND	6298.57	6288.67
MW-17	6.21.11	ND	9.56	ND	6298.57	6289.01
MW-17	9.22.11	ND	10.83	ND	6298.57	6287.74
MW-17	12.13.11	ND	10.31	ND	6298.57	6288.26

BTOC - below top of casing

AMSL - aboce mean sea level

TOC - top of casing

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

ND - Not Detected

Southwest GEOSCIENCE

APPENDIX C

Laboratory Data Reports & Chain-of-Custody Documentation

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, December 21, 2011

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

TEL: (903) 821-5603
FAX

RE: K 51

Order No.: 1112700

Dear Kyle Summers:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 12/15/2011 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Dec-11*

Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-14
Lab Order:	1112700	**Collection Date:**	12/13/2011 10:25:00 AM
Project:	K 51	**Date Received:**	12/15/2011
Lab ID:	1112700-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/18/2011 12:13:18 AM
Surr: DNOP	117	81.1-147		%REC	1	12/18/2011 12:13:18 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	1.0	0.50		mg/L	10	12/20/2011 11:22:45 PM
Surr: BFB	104	69.3-120		%REC	10	12/20/2011 11:22:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	220	10		µg/L	10	12/20/2011 11:22:45 PM
Toluene	ND	10		µg/L	10	12/20/2011 11:22:45 PM
Ethylbenzene	110	10		µg/L	10	12/20/2011 11:22:45 PM
Xylenes, Total	ND	20		µg/L	10	12/20/2011 11:22:45 PM
Surr: 4-Bromofluorobenzene	109	76.5-115		%REC	10	12/20/2011 11:22:45 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Dec-11*
Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-16
Lab Order:	1112700	**Collection Date:**	12/13/2011 10:55:00 AM
Project:	K 51	**Date Received:**	12/15/2011
Lab ID:	1112700-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/18/2011 12:47:14 AM
Surr: DNOP	119	81.1-147		%REC	1	12/18/2011 12:47:14 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.12	0.050		mg/L	1	12/20/2011 11:51:36 PM
Surr: BFB	119	69.3-120		%REC	1	12/20/2011 11:51:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	12/20/2011 11:51:36 PM
Toluene	ND	1.0		µg/L	1	12/20/2011 11:51:36 PM
Ethylbenzene	ND	1.0		µg/L	1	12/20/2011 11:51:36 PM
Xylenes, Total	ND	2.0		µg/L	1	12/20/2011 11:51:36 PM
Surr: 4-Bromofluorobenzene	112	76.5-115		%REC	1	12/20/2011 11:51:36 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Dec-11*
Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-17
Lab Order:	1112700	**Collection Date:**	12/13/2011 11:25:00 AM
Project:	K 51	**Date Received:**	12/15/2011
Lab ID:	1112700-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/18/2011 1:20:32 AM
Surr: DNOP	118	81.1-147		%REC	1	12/18/2011 1:20:32 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/21/2011 12:20:25 AM
Surr: BFB	95.7	69.3-120		%REC	1	12/21/2011 12:20:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	12/21/2011 12:20:25 AM
Toluene	ND	1.0		µg/L	1	12/21/2011 12:20:25 AM
Ethylbenzene	ND	1.0		µg/L	1	12/21/2011 12:20:25 AM
Xylenes, Total	ND	2.0		µg/L	1	12/21/2011 12:20:25 AM
Surr: 4-Bromofluorobenzene	104	76.5-115		%REC	1	12/21/2011 12:20:25 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Dec-11*
Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-13
Lab Order:	1112700	**Collection Date:**	12/13/2011 11:55:00 AM
Project:	K 51	**Date Received:**	12/15/2011
Lab ID:	1112700-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/18/2011 1:54:22 AM
Surr: DNOP	118	81.1-147		%REC	1	12/18/2011 1:54:22 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/21/2011 12:49:11 AM
Surr: BFB	95.6	69.3-120		%REC	1	12/21/2011 12:49:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	12/21/2011 12:49:11 AM
Toluene	ND	1.0		µg/L	1	12/21/2011 12:49:11 AM
Ethylbenzene	ND	1.0		µg/L	1	12/21/2011 12:49:11 AM
Xylenes, Total	ND	2.0		µg/L	1	12/21/2011 12:49:11 AM
Surr: 4-Bromofluorobenzene	104	76.5-115		%REC	1	12/21/2011 12:49:11 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Dec-11*
Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-2
Lab Order:	1112700	**Collection Date:**	12/13/2011 12:25:00 PM
Project:	K 51	**Date Received:**	12/15/2011
Lab ID:	1112700-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/18/2011 2:28:15 AM
Surr: DNOP	117	81.1-147		%REC	1	12/18/2011 2:28:15 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/21/2011 1:17:56 AM
Surr: BFB	95.3	69.3-120		%REC	1	12/21/2011 1:17:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	12/21/2011 1:17:56 AM
Toluene	ND	1.0		µg/L	1	12/21/2011 1:17:56 AM
Ethylbenzene	ND	1.0		µg/L	1	12/21/2011 1:17:56 AM
Xylenes, Total	ND	2.0		µg/L	1	12/21/2011 1:17:56 AM
Surr: 4-Bromofluorobenzene	103	76.5-115		%REC	1	12/21/2011 1:17:56 AM

Qualifiers:

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

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-3
Lab Order:	1112700	**Collection Date:**	12/13/2011 12:55:00 PM
Project:	K 51	**Date Received:**	12/15/2011
Lab ID:	1112700-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/18/2011 3:01:50 AM
Surr: DNOP	117	81.1-147		%REC	1	12/18/2011 3:01:50 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/21/2011 1:46:42 AM
Surr: BFB	96.3	69.3-120		%REC	1	12/21/2011 1:46:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	12/21/2011 1:46:42 AM
Toluene	ND	1.0		µg/L	1	12/21/2011 1:46:42 AM
Ethylbenzene	ND	1.0		µg/L	1	12/21/2011 1:46:42 AM
Xylenes, Total	ND	2.0		µg/L	1	12/21/2011 1:46:42 AM
Surr: 4-Bromofluorobenzene	104	76.5-115		%REC	1	12/21/2011 1:46:42 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Dec-11*
Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-1
Lab Order:	1112700	**Collection Date:**	12/13/2011 1:25:00 PM
Project:	K 51	**Date Received:**	12/15/2011
Lab ID:	1112700-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/18/2011 4:08:52 AM
Surr: DNOP	127	81.1-147		%REC	1	12/18/2011 4:08:52 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	3.4	1.0		mg/L	20	12/21/2011 2:15:25 AM
Surr: BFB	98.0	69.3-120		%REC	20	12/21/2011 2:15:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	260	20		µg/L	20	12/21/2011 2:15:25 AM
Toluene	250	20		µg/L	20	12/21/2011 2:15:25 AM
Ethylbenzene	54	20		µg/L	20	12/21/2011 2:15:25 AM
Xylenes, Total	650	40		µg/L	20	12/21/2011 2:15:25 AM
Surr: 4-Bromofluorobenzene	107	76.5-115		%REC	20	12/21/2011 2:15:25 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Dec-11*
Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-12
Lab Order:	1112700	**Collection Date:**	12/13/2011 1:55:00 PM
Project:	K 51	**Date Received:**	12/15/2011
Lab ID:	1112700-08	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/18/2011 4:42:28 AM
Surr: DNOP	121	81.1-147		%REC	1	12/18/2011 4:42:28 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/21/2011 3:12:53 AM
Surr: BFB	95.7	69.3-120		%REC	1	12/21/2011 3:12:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	12/21/2011 3:12:53 AM
Toluene	ND	1.0		µg/L	1	12/21/2011 3:12:53 AM
Ethylbenzene	ND	1.0		µg/L	1	12/21/2011 3:12:53 AM
Xylenes, Total	ND	2.0		µg/L	1	12/21/2011 3:12:53 AM
Surr: 4-Bromofluorobenzene	105	76.5-115		%REC	1	12/21/2011 3:12:53 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Dec-11*
Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-11
Lab Order:	1112700	**Collection Date:**	12/13/2011 2:25:00 PM
Project:	K 51	**Date Received:**	12/15/2011
Lab ID:	1112700-09	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/18/2011 5:16:05 AM
Surr: DNOP	119	81.1-147		%REC	1	12/18/2011 5:16:05 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/21/2011 3:41:44 AM
Surr: BFB	95.9	69.3-120		%REC	1	12/21/2011 3:41:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	12/21/2011 3:41:44 AM
Toluene	ND	1.0		µg/L	1	12/21/2011 3:41:44 AM
Ethylbenzene	ND	1.0		µg/L	1	12/21/2011 3:41:44 AM
Xylenes, Total	ND	2.0		µg/L	1	12/21/2011 3:41:44 AM
Surr: 4-Bromofluorobenzene	106	76.5-115		%REC	1	12/21/2011 3:41:44 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Dec-11*
Analytical Report

CLIENT:	Southwest Geoscience	**Client Sample ID:**	MW-4
Lab Order:	1112700	**Collection Date:**	12/13/2011 2:55:00 PM
Project:	K 51	**Date Received:**	12/15/2011
Lab ID:	1112700-10	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/18/2011 5:49:41 AM
Surr: DNOP	124	81.1-147		%REC	1	12/18/2011 5:49:41 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	2.6	1.0		mg/L	20	12/21/2011 4:10:33 AM
Surr: BFB	104	69.3-120		%REC	20	12/21/2011 4:10:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	84	20		µg/L	20	12/21/2011 4:10:33 AM
Toluene	ND	20		µg/L	20	12/21/2011 4:10:33 AM
Ethylbenzene	430	20		µg/L	20	12/21/2011 4:10:33 AM
Xylenes, Total	490	40		µg/L	20	12/21/2011 4:10:33 AM
Surr: 4-Bromofluorobenzene	107	76.5-115		%REC	20	12/21/2011 4:10:33 AM

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Southwest Geoscience
Project: K 51
Work Order: 1112700

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-29796		*MBLK*				Batch ID:	**29796**	Analysis Date:		12/17/2011 9:58:00 PM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Sample ID: LCS-29796		*LCS*				Batch ID:	**29796**	Analysis Date:		12/17/2011 10:32:00 PM	
Diesel Range Organics (DRO)	4.989	mg/L	1.0	5	0	99.8	74	157			
Sample ID: LCSD-29796		*LCSD*				Batch ID:	**29796**	Analysis Date:		12/17/2011 11:05:50 PM	
Diesel Range Organics (DRO)	4.915	mg/L	1.0	5	0	98.3	74	157	1.49	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1112700-01A MSD		*MSD*				Batch ID:	**R49737**	Analysis Date:		12/20/2011 9:27:36 PM	
Gasoline Range Organics (GRO)	5.620	mg/L	0.50	5	1.042	91.6	66.1	127	3.15	15.5	
Sample ID: 5ML -RB		*MBLK*				Batch ID:	**R49737**	Analysis Date:		12/20/2011 12:20:21 PM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R49737**	Analysis Date:		12/20/2011 11:22:42 AM	
Gasoline Range Organics (GRO)	0.5262	mg/L	0.050	0.5	0	105	92.1	117			
Sample ID: 1112700-01A MS		*MS*				Batch ID:	**R49737**	Analysis Date:		12/20/2011 8:58:47 PM	
Gasoline Range Organics (GRO)	5.800	mg/L	0.50	5	1.042	95.2	66.1	127			
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML -RB		*MBLK*				Batch ID:	**R49737**	Analysis Date:		12/20/2011 12:20:21 PM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R49737**	Analysis Date:		12/20/2011 11:51:33 AM	
Benzene	20.04	µg/L	1.0	20	0.1774	99.3	80	120			
Toluene	20.57	µg/L	1.0	20	0.1232	102	80	120			
Ethylbenzene	20.78	µg/L	1.0	20	0.1526	103	80	120			
Xylenes, Total	60.99	µg/L	2.0	60	0	102	78.6	121			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name SOUTHWEST GEOSCIENCE | Date Received: 12/15/2011

Work Order Number 1112700 | Received by: MMG

Checklist completed by: _____ 12/15/11 | Sample ID labels checked by: _____

Signature | Date | Initials

Matrix: | Carrier name Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐				
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐			
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑				
Chain of custody present?	Yes ☑	No ☐					
Chain of custody signed when relinquished and received?	Yes ☑	No ☐					
Chain of custody agrees with sample labels?	Yes ☑	No ☐					
Samples in proper container/bottle?	Yes ☑	No ☐					
Sample containers intact?	Yes ☑	No ☐					
Sufficient sample volume for indicated test?	Yes ☑	No ☐					
All samples received within holding time?	Yes ☑	No ☐					
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐				
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑				
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑				
Container/Temp Blank temperature?	**1.0°**	*<6° C Acceptable* If given sufficient time to cool.					

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CHAIN OF CUSTODY RECORD

Southwest GEOSCIENCE
Environmental & Hydrogeologic Consultants

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

Laboratory: HALL
Address:
Contact: Andy Freeman
Phone: (505) 345-3975
PO/SO #:

Sampler's Name: J. Dubuisson
Sampler's Signature:

Proj. No.: 0410003 (NM 12/15)
Project Name: K51 (NM 12/15)

Lab use only
Due Date:
Temp. of coolers when received (C°): 1.0°
1 | 2 | 3 | 4 | 5
Page 1 of 1

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No/Type of Containers: VOA	A/G 1 Lt.	250 ml	P/O	ANALYSIS REQUESTED: TPH GRO/DRO 8015	BTEX 8021B	Lab Sample ID (Lab Use Only)
W	12/13/11	1025		X	MW-14	—	—	4				X	X	1112700 -1
		1055			MW-16									-2
		1125			MW-17									-3
		1155			MW-13									-4
		1225			MW-2									-5
		1255			MW-3									-6
		1325			MW-1									-7
		1355			MW-12									-8
		1425			MW-11									-9
		1455			MW-4									-10

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

Relinquished by (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/13/11	1715	Christine Walker	12/13/11	1715
Christine Walker	12/14/11	1602	Mitchell Garcia	12/15/11	9:30

NOTES:
New Mexico
Verified Project Name and Proj.# with Kyle Summers MG 12/15/11

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