

NOV



Souder, Miller & Associates ♦ P.O. Box 2606 ♦ Farmington, NM 87499-2606
612 East Murray Drive ♦ Farmington, NM 87401-6624 ♦ (505) 325-5667 ♦ fax (505) 327-1496

See well file

March 3, 2006

Mr. Denny Foust
New Mexico Oil Conservation District
Aztec, NM 87410

SMA Project: 5115748

RE: Soil Sampling of Release at Yager # 9, 835 FSL, 955 FEL, Unit P, S20 T32N, R6W

Introduction:

On February 1, 2006, Souder, Miller and Associates (SMA) personnel collected four soil samples from the above referenced location. Soil samples were collected to evaluate a suspected release from a damaged reserve pit liner. Samples were collected from the south, north, and middle areas of the pit at depths below the folded over liner. A background sample was also collected near the north boundary of the location. The samples were transported to *iina ba's* laboratory in Farmington, NM, following proper preservation and Chain of Custody protocol. A tailgate safety meeting was held before the sampling event proceeded.

Summary of Field Activities:

Using a backhoe, three of the soil samples were collected from the potentially impacted area within the limits of the pit. The north sample was collected 6' below ground surface (bgs), the middle sample was collected 12' bgs, and the south sample was collected 8' bgs. The fourth sample was a background sample collected using a hand spade from a stock pile located to the north of the pit. The samples were placed in a laboratory-supplied jar and placed on ice for transport to *iina ba's* Farmington laboratory. See Site Plan for sampling locations.

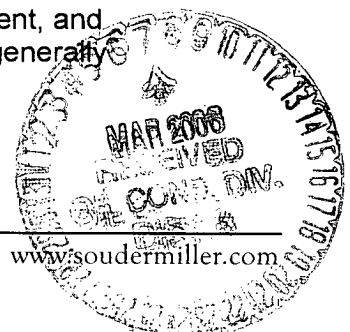
The Laboratory followed USEPA Methods SW8015B for Diesel Range and Gasoline Range Organics (DRO/GRO), SW8021B for Aromatic Volatiles (BTEX), SW6010 for metals, E300 for anions, M2320 for alkalinity, conductivity, hardness, pH, and total dissolved solids on the extract. The results were then calculated back to the soils. The enclosed table summarizes the analytical results.

Recommendations:

The residual amount of contamination left in the area affected by the tears in the pit liner does not exceed the NMOCD soil standards. On behalf of its client Pure Resources, SMA requests closure of the Yager #9 release.

Closure and Limits:

The scope of our services consisted of the performance of a single sampling event, and preparation of this summary. All work has been performed in accordance with generally accepted environmental management professional practices.

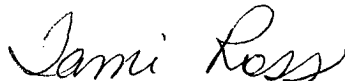


March 3, 2006

This document has been prepared by **SMA** for the exclusive use of Pure Resources, as it pertains to the referenced location. If there are any questions regarding this report, please contact either Cynthia Gray or John Hagstrom at (505) 325-5667.

Respectfully submitted,

Reviewed by,


in the absence of

John Hagstrom
Environmental Technician


Cynthia Gray, CHMM
Environmental Project Manager

Souder, Miller and Associates

Enclosures:

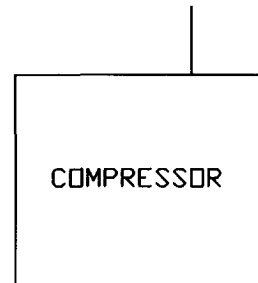
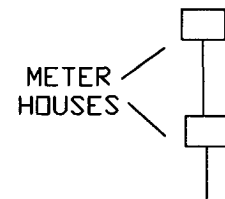
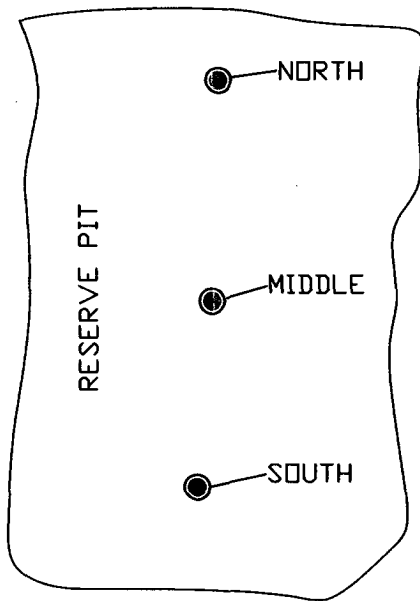
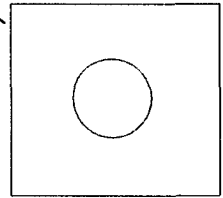
Site Plan
Laboratory Package
C144



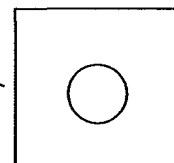
BACKGROUND

PUMP JACK

PRODUCED
WATER AST



LINED PIT



NOT TO SCALE



612 E. MURRAY DR.
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YAGER #9 SITE MAP
835 FSL 955 FEL UNIT P
SEC 20 T32N R6W

SHEET 1
OF 1

Parameter	Units	Background	North	Middle	South	
DRO	mg/Kg	11	9.5	ND	13	Note: Below Detection Limit of 25, therefore, not significant
GRO	mg/Kg	ND	ND	ND	ND	
Benzene	µg/Kg	ND	ND	ND	ND	
Toluene	µg/Kg	ND	ND	ND	ND	
Ethylbenzene	µg/Kg	ND	ND	ND	ND	
MPXylene	µg/Kg	ND	ND	ND	ND	
o Xylene	µg/Kg	ND	ND	ND	ND	
Iron	mg/Kg	0.45	1.12	1.32	0.657	
Magnesium	mg/Kg	25.8	34.7	25.7	22.8	
Calcium	mg/Kg	44.5	90.1	62.4	63.1	
Sodium	mg/Kg	151	180	257	110	
Potassium	mg/Kg	4.03	5.61	5.47	3.27	
Chloride	ppm	30.3	44.5	40.4	16.6	
Fluoride	ppm	7.25	8.84	5.44	6.67	
Nitrate	ppm	2.65	1.07	15.2	1.54	Found in method blank
Nitrite	ppm	0.17	0.21	BDL	0.1	
Phosphorus	ppm	0.27	0.59	0.34	0.27	
Orthophosphate	ppm					
sulphate	ppm	150	198	275	137	
Alk Bicarb	mg/L CaCO3	24	34	27	23	
Alk Carb	mg/L CaCO3	10	ND	ND	9	
Alk Hydrox	mg/L CaCO3	ND	ND	ND	ND	
Alk total	mg/L CaCO3	34	34	27	32	
Conductivity	uS/cm	117	126	151	101	
Hardness	mg/L	22	37	26	25	
pH	pH units	8.96	8.98	8.4	8.78	
Temperature	Deg C	24.9	23.7	23.9	25.3	
TDS residue	mg/L	83	98	90	77	
TDS calc	mg/L	62	76	85	55	

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P.O. Box 3788
Shiprock, NM 87420

Off: (505) 327-1072

ANALYTICAL REPORT

Date: 15-Feb-06 Off: (505) 368-4065

CLIENT: Souder, Miller & Associates
Work Order: 0602002
Project: Chevron Yaeger #9/ 5115748
Lab ID: 0602002-001A

Client Sample Info: Yaeger #9
Client Sample ID: North
Collection Date: 2/1/2006 11:51:00 AM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B				Analyst: jem
T/R Hydrocarbons: C10-C28	9.5	25.0	J	mg/Kg	1	2/8/2006
Surr: o-Terphenyl	95.6	47-149		%REC	1	2/8/2006
GASOLINE RANGE ORGANICS						
		SW8015B (SW5035A)				Analyst: jem
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	2/9/2006
Surr: Trifluorotoluene	105	92.5-127		%REC	25	2/9/2006
AROMATIC VOLATILES BY GC/PID						
		SW8021B (SW5035A)				Analyst: jem
Benzene	ND	50.0		µg/Kg	25	2/7/2006
Toluene	ND	50.0		µg/Kg	25	2/7/2006
Ethylbenzene	ND	50.0		µg/Kg	25	2/7/2006
m,p-Xylene	ND	100		µg/Kg	25	2/7/2006
o-Xylene	ND	50.0		µg/Kg	25	2/7/2006
Surr: Fluorobenzene	101	80-120		%REC	25	2/7/2006
Surr: 1,4-Difluorobenzene	102	80-120		%REC	25	2/7/2006
Surr: 4-Bromochlorobenzene	96.7	50-140		%REC	25	2/7/2006
ICP METALS, DISSOLVED						
		SW6010B				Analyst: jle
Iron	1.12	0.640		mg/Kg	1	2/10/2006 4:12:37 PM
Magnesium	34.7	0.830		mg/Kg	1	2/10/2006 4:12:37 PM
Calcium	90.1	2.89		mg/Kg	1	2/10/2006 4:12:37 PM
Sodium	180	130		mg/Kg	10	2/10/2006 2:24:41 PM
Potassium	5.61	1.20		mg/Kg	1	2/10/2006 4:12:37 PM
ANIONS BY ION CHROMATOGRAPHY						
		E300 (E300)				Analyst: jle
Chloride	44.5	0.500		ppm	5	2/15/2006
Fluoride	8.84	0.0500		ppm	1	2/9/2006
Nitrogen, Nitrate (As N)	1.07	0.0230	B	ppm	1	2/9/2006
Nitrogen, Nitrite (as N)	0.210	0.0300		ppm	1	2/9/2006
Phosphorus, Dissolved Orthophosphate (As P)	0.590	0.0330		ppm	1	2/9/2006
Sulfate	198	0.500		ppm	5	2/15/2006
ALKALINITY, TOTAL						
		M2320 B				Analyst: elc
Alkalinity, Bicarbonate (As CaCO3)	34	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Total (As CaCO3)	34	5		mg/L CaCO3	1	2/9/2006
CONDUCTIVITY @ 25C						
		E120.1				Analyst: elc

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

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ANALYTICAL REPORT

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CLIENT: Souder, Miller & Associates
Work Order: 0602002
Project: Chevron Yaeger #9/ 5115748
Lab ID: 0602002-001A

Client Sample Info: Yaeger #9
Client Sample ID: North
Collection Date: 2/1/2006 11:51:00 AM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: elc
Specific Conductance	126	2.00		uS/cm	1	2/8/2006
HARDNESS, TOTAL		M2340 B				Analyst: jem
Hardness (As CaCO3)	37	1		mg/L	1	2/15/2006
PH		E150.1				Analyst: elc
pH	8.98	1.00		pH units	1	2/8/2006
Temperature	23.7	0		deg C	1	2/8/2006
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: elc
Total Dissolved Solids (Residue, Filterable)	98	40		mg/L	1	2/10/2006
TOTAL DISSOLVED SOLIDS		M1030F				Analyst: jem
Total Dissolved Solids (Calculated)	76	5		mg/L	1	2/15/2006

Qualifiers:
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ANALYTICAL REPORT

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Date: 15-Feb-06 Off: (505) 368-4065

CLIENT: Souder, Miller & Associates
Work Order: 0602002
Project: Chevron Yaeger #9/ 5115748
Lab ID: 0602002-002A

Client Sample Info: Yaeger #9
Client Sample ID: Middle
Collection Date: 2/1/2006 11:38:00 AM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B				Analyst: jem
T/R Hydrocarbons: C10-C28	ND	25.0		mg/Kg	1	2/8/2006
Surr: o-Terphenyl	90.6	47-149		%REC	1	2/8/2006
GASOLINE RANGE ORGANICS						
		SW8015B (SW5035A)				Analyst: jem
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	2/9/2006
Surr: Trifluorotoluene	107	92.5-127		%REC	25	2/9/2006
AROMATIC VOLATILES BY GC/PID						
		SW8021B (SW5035A)				Analyst: jem
Benzene	ND	50.0		µg/Kg	25	2/7/2006
Toluene	ND	50.0		µg/Kg	25	2/7/2006
Ethylbenzene	ND	50.0		µg/Kg	25	2/7/2006
m,p-Xylene	ND	100		µg/Kg	25	2/7/2006
o-Xylene	ND	50.0		µg/Kg	25	2/7/2006
Surr: Fluorobenzene	102	80-120		%REC	25	2/7/2006
Surr: 1,4-Difluorobenzene	102	80-120		%REC	25	2/7/2006
Surr: 4-Bromochlorobenzene	105	50-140		%REC	25	2/7/2006
ICP METALS, DISSOLVED						
		SW6010B				Analyst: jle
Iron	1.32	0.640		mg/Kg	1	2/10/2006 4:20:48 PM
Magnesium	25.7	0.830		mg/Kg	1	2/10/2006 4:20:48 PM
Calcium	62.4	2.89		mg/Kg	1	2/10/2006 4:20:48 PM
Sodium	257	130		mg/Kg	10	2/10/2006 2:32:39 PM
Potassium	5.47	1.20		mg/Kg	1	2/10/2006 4:20:48 PM
ANIONS BY ION CHROMATOGRAPHY						
		E300 (E300)				Analyst: jle
Chloride	40.4	0.500		ppm	5	2/15/2006
Fluoride	5.44	0.0500		ppm	1	2/9/2006
Nitrogen, Nitrate (As N)	15.2	0.0230	B	ppm	1	2/9/2006
Nitrogen, Nitrite (as N)	< 0.0300	0.0300		ppm	1	2/9/2006
Phosphorus, Dissolved	0.340	0.0330		ppm	1	2/9/2006
Orthophosphate (As P)						
Sulfate	275	0.500		ppm	5	2/15/2006
ALKALINITY, TOTAL						
		M2320 B				Analyst: elc
Alkalinity, Bicarbonate (As CaCO3)	27	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Total (As CaCO3)	27	5		mg/L CaCO3	1	2/9/2006
CONDUCTIVITY @ 25C						
		E120.1				Analyst: elc

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ANALYTICAL REPORT

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Date: 15-Feb-06 Off: (505) 368-4065

CLIENT: Souder, Miller & Associates
Work Order: 0602002
Project: Chevron Yaeger #9/ 5115748
Lab ID: 0602002-002A

Client Sample Info: Yaeger #9
Client Sample ID: Middle
Collection Date: 2/1/2006 11:38:00 AM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: elc
Specific Conductance	151	2.00		uS/cm	1	2/8/2006
HARDNESS, TOTAL		M2340 B				Analyst: jem
Hardness (As CaCO3)	26	1		mg/L	1	2/15/2006
PH		E150.1				Analyst: elc
pH	8.40	1.00		pH units	1	2/8/2006
Temperature	23.9	0		deg C	1	2/8/2006
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: elc
Total Dissolved Solids (Residue, Filterable)	90	40		mg/L	1	2/10/2006
TOTAL DISSOLVED SOLIDS		M1030F				Analyst: jem
Total Dissolved Solids (Calculated)	85	5		mg/L	1	2/15/2006

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Date: 15-Feb-06 Off: (505) 368-4065

CLIENT: Souder, Miller & Associates
Work Order: 0602002
Project: Chevron Yaeger #9/ 5115748
Lab ID: 0602002-003A

Client Sample Info: Yaeger #9
Client Sample ID: South
Collection Date: 2/1/2006 10:34:00 AM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B				Analyst: jem
T/R Hydrocarbons: C10-C28	13	25.0	J	mg/Kg	1	2/8/2006
Surr: o-Terphenyl	102	47-149		%REC	1	2/8/2006
GASOLINE RANGE ORGANICS						
		SW8015B (SW5035A)				Analyst: jem
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	2/9/2006
Surr: Trifluorotoluene	106	92.5-127		%REC	25	2/9/2006
AROMATIC VOLATILES BY GC/PID						
		SW8021B (SW5035A)				Analyst: jem
Benzene	ND	50.0		µg/Kg	25	2/7/2006
Toluene	ND	50.0		µg/Kg	25	2/7/2006
Ethylbenzene	ND	50.0		µg/Kg	25	2/7/2006
m,p-Xylene	ND	100		µg/Kg	25	2/7/2006
o-Xylene	ND	50.0		µg/Kg	25	2/7/2006
Surr: Fluorobenzene	101	80-120		%REC	25	2/7/2006
Surr: 1,4-Difluorobenzene	101	80-120		%REC	25	2/7/2006
Surr: 4-Bromochlorobenzene	103	50-140		%REC	25	2/7/2006
ICP METALS, DISSOLVED						
		SW6010B				Analyst: jle
Iron	0.657	0.640		mg/Kg	1	2/10/2006 4:29:02 PM
Magnesium	22.8	0.830		mg/Kg	1	2/10/2006 4:29:02 PM
Calcium	63.1	2.89		mg/Kg	1	2/10/2006 4:29:02 PM
Sodium	110	130	J	mg/Kg	10	2/10/2006 2:42:17 PM
Potassium	3.27	1.20		mg/Kg	1	2/10/2006 4:29:02 PM
ANIONS BY ION CHROMATOGRAPHY						
		E300 (E300)				Analyst: jle
Chloride	16.6	0.200		ppm	2	2/15/2006
Fluoride	6.67	0.0500		ppm	1	2/9/2006
Nitrogen, Nitrate (As N)	1.54	0.0230	B	ppm	1	2/9/2006
Nitrogen, Nitrite (as N)	0.100	0.0300		ppm	1	2/9/2006
Phosphorus, Dissolved Orthophosphate (As P)	0.270	0.0330		ppm	1	2/9/2006
Sulfate	137	0.200		ppm	2	2/15/2006
ALKALINITY, TOTAL						
		M2320 B				Analyst: elc
Alkalinity, Bicarbonate (As CaCO ₃)	23	5		mg/L CaCO ₃	1	2/9/2006
Alkalinity, Carbonate (As CaCO ₃)	9	5		mg/L CaCO ₃	1	2/9/2006
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	2/9/2006
Alkalinity, Total (As CaCO ₃)	32	5		mg/L CaCO ₃	1	2/9/2006
CONDUCTIVITY @ 25C						
		E120.1				Analyst: elc

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Date: 15-Feb-06 Off: (505) 368-4065

CLIENT: Souder, Miller & Associates
Work Order: 0602002
Project: Chevron Yaeger #9/ 5115748
Lab ID: 0602002-003A

Client Sample Info: Yaeger #9
Client Sample ID: South
Collection Date: 2/1/2006 10:34:00 AM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: elc
Specific Conductance	101	2.00		uS/cm	1	2/8/2006
HARDNESS, TOTAL		M2340 B				Analyst: jem
Hardness (As CaCO3)	25	1		mg/L	1	2/15/2006
PH		E150.1				Analyst: elc
pH	8.78	1.00		pH units	1	2/8/2006
Temperature	25.3	0		deg C	1	2/8/2006
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: elc
Total Dissolved Solids (Residue, Filterable)	77	40		mg/L	1	2/10/2006
TOTAL DISSOLVED SOLIDS		M1030F				Analyst: jem
Total Dissolved Solids (Calculated)	55	5		mg/L	1	2/15/2006

Qualifiers:
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J - Analyte detected below Practical Quantitation Limit
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Date: 15-Feb-06 Off: (505) 368-4065

CLIENT: Souder, Miller & Associates
Work Order: 0602002
Project: Chevron Yaeger #9/ 5115748
Lab ID: 0602002-004A

Client Sample Info: Yaeger #9
Client Sample ID: Background
Collection Date: 2/1/2006 10:00:00 AM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B				Analyst: jem
T/R Hydrocarbons: C10-C28	11	25.0	J	mg/Kg	1	2/8/2006
Surr: o-Terphenyl	82.2	47-149		%REC	1	2/8/2006
GASOLINE RANGE ORGANICS						
		SW8015B (SW5035A)				Analyst: jem
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	2/9/2006
Surr: Trifluorotoluene	106	92.5-127		%REC	25	2/9/2006
AROMATIC VOLATILES BY GC/PID						
		SW8021B (SW5035A)				Analyst: jem
Benzene	ND	50.0		µg/Kg	25	2/7/2006
Toluene	ND	50.0		µg/Kg	25	2/7/2006
Ethylbenzene	ND	50.0		µg/Kg	25	2/7/2006
m,p-Xylene	ND	100		µg/Kg	25	2/7/2006
o-Xylene	ND	50.0		µg/Kg	25	2/7/2006
Surr: Fluorobenzene	101	80-120		%REC	25	2/7/2006
Surr: 1,4-Difluorobenzene	102	80-120		%REC	25	2/7/2006
Surr: 4-Bromochlorobenzene	96.6	50-140		%REC	25	2/7/2006
ICP METALS, DISSOLVED						
		SW6010B				Analyst: jle
Iron	0.45	0.640	J	mg/Kg	1	2/10/2006 4:37:10 PM
Magnesium	25.8	0.830		mg/Kg	1	2/10/2006 4:37:10 PM
Calcium	44.5	2.89		mg/Kg	1	2/10/2006 4:37:10 PM
Sodium	151	130		mg/Kg	10	2/10/2006 2:50:29 PM
Potassium	4.03	1.20		mg/Kg	1	2/10/2006 4:37:10 PM
ANIONS BY ION CHROMATOGRAPHY						
		E300 (E300)				Analyst: jle
Chloride	30.3	0.200		ppm	2	2/15/2006
Fluoride	7.25	0.0500		ppm	1	2/9/2006
Nitrogen, Nitrate (As N)	2.65	0.0230	B	ppm	1	2/9/2006
Nitrogen, Nitrite (as N)	0.170	0.0300		ppm	1	2/9/2006
Phosphorus, Dissolved Orthophosphate (As P)	0.270	0.0330		ppm	1	2/9/2006
Sulfate	150	0.200		ppm	2	2/15/2006
ALKALINITY, TOTAL						
		M2320 B				Analyst: elc
Alkalinity, Bicarbonate (As CaCO ₃)	24	5		mg/L CaCO ₃	1	2/9/2006
Alkalinity, Carbonate (As CaCO ₃)	10	5		mg/L CaCO ₃	1	2/9/2006
Alkalinity, Hydroxide	ND	5		mg/L CaCO ₃	1	2/9/2006
Alkalinity, Total (As CaCO ₃)	34	5		mg/L CaCO ₃	1	2/9/2006
CONDUCTIVITY @ 25C						
		E120.1				Analyst: elc

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

612 E. Murray Drive
Farmington, NM 87499

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 327-1072

ANALYTICAL REPORT

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Date: 15-Feb-06 Off: (505) 368-4065

CLIENT: Souder, Miller & Associates
Work Order: 0602002
Project: Chevron Yaeger #9/ 5115748
Lab ID: 0602002-004A

Client Sample Info: Yaeger #9
Client Sample ID: Background
Collection Date: 2/1/2006 10:00:00 AM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1				Analyst: elc
Specific Conductance	117	2.00		uS/cm	1	2/8/2006
HARDNESS, TOTAL		M2340 B				Analyst: jem
Hardness (As CaCO3)	22	1		mg/L	1	2/15/2006
PH		E150.1				Analyst: elc
pH	8.96	1.00		pH units	1	2/8/2006
Temperature	24.9	0		deg C	1	2/8/2006
TOTAL DISSOLVED SOLIDS		E160.1				Analyst: elc
Total Dissolved Solids (Residue, Filterable)	83	40		mg/L	1	2/10/2006
TOTAL DISSOLVED SOLIDS		M1030F				Analyst: jem
Total Dissolved Solids (Calculated)	62	5		mg/L	1	2/15/2006

Qualifiers:
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