

1R - 301

GENERAL CORRESPONDENCE

YEAR(S):

2001

Olson, William

From: Mike @ Whole Earth [SMTP:whearth@iAmerica.net]
Sent: Tuesday, March 06, 2001 4:22 PM
To: Bill Olson
Subject: George O'Brien Graham State # 1

Bill

Thank you for your time and attention this afternoon. We were certainly aware of the hot spot on the west wall of the Graham State # 1 site for George O'Brien. We were in fact the ones who first brought the area to Donna Williams' attention. The area in question is approximately one meter tall by three meters wide and lies within five feet of a major transite line that bisects the location.

The soil conditions surrounding the stain consists of dense, sheet-layered caliche. We felt that any further attempt to chase this finger might result in catastrophe. The transite line is 14" diameter and we are on the lower end of a gravity feed system that extends for an approximate distance of 4.5 miles up-gradient from the pit. It is not something we wanted to even nick.

The sample results included within our report were obtained on the basis of a five point composite taken over the entire wall surface. The sample obtained by Billy Prichart came solely from the single stain area.

The pit contents consisted exclusively of tank bottoms and as you may discern from the DRO / GRO ratios, are predominately heavy end fractions that will pose no threat to the environment.

Thank you again for your consideration of this matter.

Mike Griffin
President
Whole Earth Environmental, Inc.

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
155 McCutcheon, Suite H

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79932 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

Analytical and Quality Control Report

Donna Williams
OCD Hobbs Office
1625 N. French Drive
Hobbs, NM 88240

Report Date: February 16, 2001

Order ID Number: A01010507

Project Number: N/A
Project Name: N/A
Project Location: West Wall

*George O'Brien
Graham State #1*

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
161874	0103011000	Soil	1/3/01	10:00	1/5/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Analytical Report

Sample: 161874 - 0103011000

Analysis: Alkalinity Analytical Method: E 310.1 QC Batch: QC08058 Date Analyzed: 1/11/01
Analyst: JS Preparation Method: N/A Prep Batch: PB07046 Date Prepared: 1/9/01

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/Kg as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/Kg as CaCo3	1	1
Bicarbonate Alkalinity		362	mg/Kg as CaCo3	1	1
Total Alkalinity	1	362	mg/Kg as CaCo3	1	1

Sample: 161874 - 0103011000

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC08119 Date Analyzed: 1/12/01
Analyst: JW Preparation Method: 5035 Prep Batch: PB07082 Date Prepared: 1/12/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.05	mg/Kg	50	0.001
Toluene		0.399	mg/Kg	50	0.001
Ethylbenzene		0.984	mg/Kg	50	0.001
M,P,O-Xylene		3.28	mg/Kg	50	0.001
Total BTEX		4.66	mg/Kg	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		4.5	mg/Kg	50	0.10	0	72 - 128
4-BFB	2	7.7	mg/Kg	50	0.10	0	72 - 128

Sample: 161874 - 0103011000

Analysis: Conductivity Analytical Method: SM 2510B QC Batch: QC08055 Date Analyzed: 1/9/01
Analyst: JS Preparation Method: N/A Prep Batch: PB07040 Date Prepared: 1/9/01

Param	Flag	Result	Units	Dilution	RDL
Specific Conductance		2300	μMHOS/cm	1	

Sample: 161874 - 0103011000

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC08062 Date Analyzed: 1/9/01
Analyst: JS Preparation Method: N/A Prep Batch: PB07048 Date Prepared: 1/9/01

Param	Flag	Result	Units	Dilution	RDL
CL	3	410	mg/Kg	1	0.50
Nitrate-N		<1.0	mg/Kg	1	0.20
Sulfate		160	mg/Kg	1	0.50

¹There was not enough sample to duplicate the sample. I duplicated a CCV. The RPD recovery for the duplicate was 1.

²BFB high due to interfering peaks.

³Chloride re-ran on IC011501-1.sch. ICV %IA = 103; CCV %IA = 103; matrix spikes RPD = 0; matrix spikes %EA = 103.

N/A

N/A

West Wall

Sample: 161874 - 0103011000

Analysis: Salts Analytical Method: S 6010B QC Batch: QC09065 Date Analyzed: 2/13/01
 Analyst: LB Preparation Method: E 3005 A Prep Batch: PB07804 Date Prepared: 1/9/01

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		348000	mg/Kg	1	0.50
Dissolved Magnesium		2030	mg/Kg	1	0.50
Dissolved Potassium		282	mg/Kg	1	0.50
Dissolved Sodium		1518	mg/Kg	1	0.50

Sample: 161874 - 0103011000

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC08060 Date Analyzed: 1/11/01
 Analyst: JS Preparation Method: N/A Prep Batch: PB07045 Date Prepared: 1/9/01

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		1800	mg/Kg	1	10

Sample: 161874 - 0103011000

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: QC08183 Date Analyzed: 1/16/01
 Analyst: BP Preparation Method: 3550 B Prep Batch: PB07138 Date Prepared: 1/16/01

Param	Flag	Result	Units	Dilution	RDL
DRO		11600	mg/Kg	5	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Octane		228	mg/Kg	5	250	91	70 - 130

Sample: 161874 - 0103011000

Analysis: TPH GRO Analytical Method: 8015B QC Batch: QC08120 Date Analyzed: 1/12/01
 Analyst: JW Preparation Method: N/A Prep Batch: PB07082 Date Prepared: 1/12/01

Param	Flag	Result	Units	Dilution	RDL
GRO		532	mg/Kg	1	0.10

Sample: 161874 - 0103011000

Analysis: pH Analytical Method: E 150.1 QC Batch: QC08020 Date Analyzed: 1/9/01
 Analyst: RS Preparation Method: N/A Prep Batch: PB07000 Date Prepared: 1/9/01

Param	Flag	Result	Units	Dilution	RDL
pH		8.5	s.u.	1	1

Quality Control Report Method Blank

Method Blank QCBatch: QC08055

Param	Flag	Results	Units	Reporting Limit
Specific Conductance		13	μMHOS/cm	

Method Blank QCBatch: QC08058

Param	Flag	Results	Units	Reporting Limit
Hydroxide Alkalinity		<1.0	mg/Kg as CaCo3	1
Carbonate Alkalinity		<1.0	mg/Kg as CaCo3	1
Bicarbonate Alkalinity		<4.0	mg/Kg as CaCo3	1
Total Alkalinity		<4.0	mg/Kg as CaCo3	1

Method Blank QCBatch: QC08060

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<10	mg/Kg	10

Method Blank QCBatch: QC08062

Param	Flag	Results	Units	Reporting Limit
CL		2.90	mg/Kg	0.50
Nitrate-N		<0.2	mg/Kg	0.20
Sulfate		5.88	mg/Kg	0.50

Method Blank QCBatch: QC08119

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.05	mg/Kg	0.001
Toluene		<0.05	mg/Kg	0.001
Ethylbenzene		<0.05	mg/Kg	0.001
M,P,O-Xylene		<0.05	mg/Kg	0.001
Total BTEX		<0.05	mg/Kg	0.001

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
TFT		5.12	mg/Kg	0.10	102	72 - 128
4-BFB		4.37	mg/Kg	0.10	87	72 - 128

Method Blank QCBatch: QC08120

Param	Flag	Results	Units	Reporting Limit
GRO		<5	mg/Kg	0.10

Method Blank QCBatch: QC08183

Param	Flag	Results	Units	Reporting Limit
DRO		<50	mg/Kg	50

Method Blank QCBatch: QC09065

Param	Flag	Results	Units	Reporting Limit
Dissolved Calcium		<0.5	mg/Kg	0.50
Dissolved Magnesium		<0.5	mg/Kg	0.50
Dissolved Potassium		<0.5	mg/Kg	0.50
Dissolved Sodium		<0.5	mg/Kg	0.50

Quality Control Report Lab Control Spikes and Duplicate Spikes

LCS QC Batch: QC08062

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Nitrate-N		2.42	mg/Kg	1	2.50	<0.2	96		80 - 120	20
Sulfate	4	17.52	mg/Kg	1	12.50	5.88	140		80 - 120	20

LCSD QC Batch: QC08062

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Nitrate-N		2.42	mg/Kg	1	2.50	<0.2	96	0	80 - 120	20
Sulfate	5	17.37	mg/Kg	1	12.50	5.88	138	1	80 - 120	20

LCS QC Batch: QC08119

⁴Sample master does not subtract the blank when calculating the %EA. The correct %EA = 93.⁵Sample master does not subtract the blank when calculating the %EA. The correct %EA = 92.

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		4.93	mg/Kg	50	0.10	<0.05	98		80 - 120	20
Benzene		4.62	mg/Kg	50	0.10	<0.05	92		80 - 120	20
Toluene		4.41	mg/Kg	50	0.10	<0.05	88		80 - 120	20
Ethylbenzene		4.45	mg/Kg	50	0.10	<0.05	89		80 - 120	20
M,P,O-Xylene		12.1	mg/Kg	50	0.30	<0.05	80		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.78	mg/Kg	50	0.10	95	72 - 128
4-BFB		4.45	mg/Kg	50	0.10	89	72 - 128

LCSD

QC Batch: QC08119

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		5.13	mg/Kg	50	0.10	<0.05	102	4	80 - 120	20
Benzene		4.88	mg/Kg	50	0.10	<0.05	97	5	80 - 120	20
Toluene		4.7	mg/Kg	50	0.10	<0.05	94	6	80 - 120	20
Ethylbenzene		4.73	mg/Kg	50	0.10	<0.05	94	6	80 - 120	20
M,P,O-Xylene		13	mg/Kg	50	0.30	<0.05	86	7	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		5.07	mg/Kg	50	0.10	101	72 - 128
4-BFB		4.58	mg/Kg	50	0.10	91	72 - 128

LCS

QC Batch: QC08183

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
DRO		276	mg/Kg	1	250	<50	110		70 - 130	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
n-Octane		222	mg/Kg	1	250	88	70 - 130

LCSD

QC Batch: QC08183

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
DRO		272	mg/Kg	1	250	<50	108	1	70 - 130	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
n-Octane		211	mg/Kg	1	250	84	70 - 130

LCS

QC Batch: QC09065

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Calcium		10440	mg/Kg	1	10000	<0.5	104		75 - 125	20
Dissolved Magnesium		10490	mg/Kg	1	10000	<0.5	104		75 - 125	20
Dissolved Potassium		10740	mg/Kg	1	10000	<0.5	107		75 - 125	20
Dissolved Sodium		10870	mg/Kg	1	10000	<0.5	108		75 - 125	20

LCSD

QC Batch: QC09065

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Calcium		10310	mg/Kg	1	10000	<0.5	103	1	75 - 125	20
Dissolved Magnesium		10320	mg/Kg	1	10000	<0.5	103	2	75 - 125	20
Dissolved Potassium		10330	mg/Kg	1	10000	<0.5	103	4	75 - 125	20
Dissolved Sodium		10710	mg/Kg	1	10000	<0.5	107	1	75 - 125	20

Quality Control Report Matrix Spikes and Duplicate Spikes

MS

QC Batch: QC08062

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Nitrate-N		242.75	mg/Kg	1	250	<1.0	97		69 - 120	20
Sulfate		1321.32	mg/Kg	1	1250	160	92		56 - 131	20

MSD

QC Batch: QC08062

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Nitrate-N		241.26	mg/Kg	1	250	<1.0	96	1	69 - 118	20
Sulfate		1295.00	mg/Kg	1	1250	160	90	2	56 - 131	20

MS

QC Batch: QC08119

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Benzene		4.06	mg/Kg	50	0.10	<0.05	81	5	80 - 120	20
Toluene		3.92	mg/Kg	50	0.10	<0.05	78	6	80 - 120	20
Ethylbenzene		3.8	mg/Kg	50	0.10	<0.05	76	6	80 - 120	20
M,P,O-Xylene		10.5	mg/Kg	50	0.30	<0.05	70	7	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		3.74	mg/Kg	50	0.10	74	72 - 128
4-BFB		3.72	mg/Kg	50	0.10	74	72 - 128

MSD

QC Batch: QC08119

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Benzene		4.96	mg/Kg	50	0.10	<0.05	99	20	80 - 120	20
Toluene		4.89	mg/Kg	50	0.10	<0.05	97	22	80 - 120	20
Ethylbenzene		4.86	mg/Kg	50	0.10	<0.05	97	24	80 - 120	20
M,P,O-Xylene		13.4	mg/Kg	50	0.30	<0.05	89	24	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.49	mg/Kg	50	0.10	89	72 - 128
4-BFB		4.58	mg/Kg	50	0.10	91	72 - 128

MS

QC Batch: QC08183

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
DRO		316	mg/Kg	1	250	101	86		70 - 130	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
n-Octane		217	mg/Kg	1	250	86	70 - 130

MSD

QC Batch: QC08183

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
DRO		304	mg/Kg	1	250	101	81	6	70 - 130	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
n-Octane		221	mg/Kg	1	250	88	70 - 130

MS

QC Batch: QC09065

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Calcium	⁶	377400	mg/Kg	1	10000	348000	294		75 - 125	20
Dissolved Magnesium		11260	mg/Kg	1	10000	2030	92		75 - 125	20
Dissolved Potassium		10370	mg/Kg	1	10000	282	100		75 - 125	20
Dissolved Sodium		10570	mg/Kg	1	10000	1518	90		75 - 125	20

MSD

QC Batch: QC09065

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Dissolved Calcium	⁷	352000	mg/Kg	1	10000	348000	40	152	75 - 125	20
Dissolved Magnesium		11980	mg/Kg	1	10000	2030	99	8	75 - 125	20
Dissolved Potassium		10400	mg/Kg	1	10000	282	101	0	75 - 125	20
Dissolved Sodium		10590	mg/Kg	1	10000	1518	90	0	75 - 125	20

Quality Control Report Duplicate Samples

Duplicate

QC Batch: QC08020

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH		8.5	8.5	s.u.	1	0	1

Duplicate

QC Batch: QC08055

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Specific Conductance		2315	2300	μMHOS/cm	1	1	9

Duplicate

QC Batch: QC08060

⁶Matrix Spike (MS) for Ca invalid due to required dilution. LCS demonstrates process under control.⁷Matrix Spike (MS) for Ca invalid due to required dilution. LCS demonstrates process under control.

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1810	1800	mg/Kg	1	0	11

Quality Control Report Continuing Calibration Verification Standards

CCV (1) QC Batch: QC08020

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7	7.0	100	80 - 120	1/9/01

ICV (1) QC Batch: QC08020

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7	7.0	100	80 - 120	1/9/01

CCV (1) QC Batch: QC08055

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		µMHOS/cm	1413	1408	99	80 - 120	1/9/01

ICV (1) QC Batch: QC08055

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Specific Conductance		µMHOS/cm	1413	1415	100	80 - 120	1/9/01

CCV (1) QC Batch: QC08058

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/Kg as CaCo3	0	<1.0	0	80 - 120	1/11/01
Carbonate Alkalinity		mg/Kg as CaCo3	0	216	0	80 - 120	1/11/01
Bicarbonate Alkalinity		mg/Kg as CaCo3	0	16	0	80 - 120	1/11/01
Total Alkalinity		mg/Kg as CaCo3	250	232	92	80 - 120	1/11/01

ICV (1) QC Batch: QC08058

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/Kg as CaCo3	0	<1.0	0	80 - 120	1/11/01
Carbonate Alkalinity		mg/Kg as CaCo3	0	228	0	80 - 120	1/11/01
Bicarbonate Alkalinity		mg/Kg as CaCo3	0	11	0	80 - 120	1/11/01
Total Alkalinity		mg/Kg as CaCo3	250	239	95	80 - 120	1/11/01

CCV (1) QC Batch: QC08060

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/Kg	1000	1016	101	80 - 120	1/11/01

ICV (1) QC Batch: QC08060

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/Kg	1000	949	94	80 - 120	1/11/01

CCV (1) QC Batch: QC08062

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/Kg	2.50	2.48	99	80 - 120	1/9/01
CL		mg/Kg	12.50	11.59	92	80 - 120	1/9/01
Fluoride		mg/Kg	2.50	2.47	98	80 - 120	1/9/01
Nitrate-N		mg/Kg	2.50	2.42	96	80 - 120	1/9/01
Sulfate		mg/Kg	12.50	11.77	94	80 - 120	1/9/01

ICV (1) QC Batch: QC08062

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/Kg	2.50	2.47	98	80 - 120	1/9/01
CL		mg/Kg	12.50	11.64	93	80 - 120	1/9/01
Fluoride		mg/Kg	2.50	2.47	98	80 - 120	1/9/01
Nitrate-N		mg/Kg	2.50	2.42	96	80 - 120	1/9/01
Sulfate		mg/Kg	12.50	11.69	93	80 - 120	1/9/01

CCV (1) QC Batch: QC08119

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/Kg	0.10	0.111	111	85 - 115	1/12/01
Benzene		mg/Kg	0.10	0.097	97	85 - 115	1/12/01
Toluene		mg/Kg	0.10	0.097	97	85 - 115	1/12/01
Ethylbenzene		mg/Kg	0.10	0.096	96	85 - 115	1/12/01
M,P,O-Xylene		mg/Kg	0.30	0.252	84	85 - 115	1/12/01

CCV (2)

QC Batch: QC08119

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/Kg	0.10	0.12	120	85 - 115	1/12/01
Benzene		mg/Kg	0.10	0.083	83	85 - 115	1/12/01
Toluene		mg/Kg	0.10	0.073	73	85 - 115	1/12/01
Ethylbenzene		mg/Kg	0.10	0.089	89	85 - 115	1/12/01
M,P,O-Xylene		mg/Kg	0.30	0.196	65	85 - 115	1/12/01

ICV (1)

QC Batch: QC08119

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/Kg	0.10	0.121	121	85 - 115	1/12/01
Benzene		mg/Kg	0.10	0.103	103	85 - 115	1/12/01
Toluene		mg/Kg	0.10	0.099	99	85 - 115	1/12/01
Ethylbenzene		mg/Kg	0.10	0.098	98	85 - 115	1/12/01
M,P,O-Xylene		mg/Kg	0.30	0.271	90	85 - 115	1/12/01

CCV (1)

QC Batch: QC08183

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	312	124	75 - 125	1/16/01
n-Octane		mg/Kg	250	266	106	75 - 125	1/16/01

ICV (1)

QC Batch: QC08183

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	266	106	75 - 125	1/16/01
n-Octane		mg/Kg	250	214	85	75 - 125	1/16/01

CCV (1) QC Batch: QC09065

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/Kg	25	25.9	103	75 - 125	2/13/01
Dissolved Magnesium		mg/Kg	25	24.4	97	75 - 125	2/13/01
Dissolved Potassium		mg/Kg	25	24.3	97	75 - 125	2/13/01
Dissolved Sodium		mg/Kg	25	24.0	96	75 - 125	2/13/01

ICV (1) QC Batch: QC09065

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/Kg	25	26.5	106	75 - 125	2/13/01
Dissolved Magnesium		mg/Kg	25	25.7	102	75 - 125	2/13/01
Dissolved Potassium		mg/Kg	25	24.6	98	75 - 125	2/13/01
Dissolved Sodium		mg/Kg	25	24.4	97	75 - 125	2/13/01

GEORGE H. O'BRIEN

GEOLOGIST

MIDLAND, TEXAS 79702

February 13. 2001

RECEIVED

FEB 15 2001

Mr. Roger Anderson
NMODC
1220 South Frances
Santa Fe NM 87505

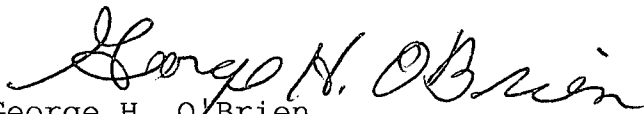
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Re: MGM Graham State #1
UL 0-Sec.3-T11S-R33E
Lea County, NM

Dear Sir:

I am pleased to forward to you the completed Closure Report from Whole Earth Environmental, Inc. Thank you for your kind indulgence in this matter.

Yours truly,


George H. O'Brien

Encl.