SITE CLOSURE REQUEST
AND
RESPONSE TO LETTER OF VIOLATION

GEM 8705 JV-P No. 004 BATTERY
UNIT N, SECTION 2, TOWNSHIP 20 SOUTH, RANGE 33 EAST
WEST OF HOBBS
LEA COUNTY, NEW MEXICO

Inspection # iLWH0720051100
RP #1476

Prepared for:

BTA Oil Producers
104 S. Pecos
Midland, Texas 79701

NOVA safety and environmental

Prepared by:

NOVA Safety and Environmental
2057 Commerce Drive
Midland, Texas 79703

October 2007

Curt D. Stanley
Project Manager

Todd K. Choban, P.G.
Vice President, Technical Services

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

Initial Report ☒ Amended Final Report

Name of Company	BTA Oil Producers	Contact:	Joseph A. (Skip) Baca
Address:	104 S. Pecos, Midland, TX 79701	Telephone No.	432-628-3753
Facility Name	GEM 8705 JV-P No. #4 Battery	Facility Type:	Tank Battery

Surface Owner:	Mineral Owner	Lease No.
State of New Mexico	State of New Mexico	V-2199

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	2	20S	33E	660	South	2310	West	Lea

Latitude 32 degrees, 35' 45.33" **Longitude** 103 degrees, 38' 10.78"

NATURE OF RELEASE

Type of Release: Oil / Produced Water	Volume of Release: 20 BBL	Volume Recovered 0 BBL
Source of Release: Swedge / Tank Leak	Date and Hour of Occurrence 11/19/2006	Date and Hour of Discovery 11/19/2006 10:30 hours CST
Was Immediate Notice Given? Yes ☒ No ☐ Not Required	If YES, To Whom? Larry Johnson, Hobbs District Office	
By Whom? Pam Inskeep	Date and Hour 11/20/2006 2:00 hours CST	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse:	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
The release was the result of internal corrosion of a 4"x3" swedge on the back side of Tank #2 which resulted in an estimated 20 BBLS of Oil/Water being released. The swedge was plugged and the tank was emptied.

Describe Area Affected and Cleanup Action Taken.*
The depth to groundwater required soil clean up levels not to exceed 1,000 mg/Kg TPH, 10 mg/Kg benzene and total BTEX not to exceed 50 mg/Kg. Impacted soil was excavated stockpiled, blended, sampled and with NMOCD approval was used to backfill the excavation. A Site Closure Request has been submitted detailing additional remediation activities.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Joseph A. Baca	OIL CONSERVATION DIVISION
Printed Name: Joseph A. (Skip) Baca	Approved by Environmental Engineer: ENVIRONMENTAL ENGINEER
Title: Environmental Coordinator	Approval Date: 12.12.07 Expiration Date:
E-mail Address: sbaca@btaoil.com	Conditions of Approval: Attached ☐
Date: October 5, 2007 Phone: (432) 682-3753	

* Attach Additional Sheets If Necessary

RP#1476

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APPENDICES

1.0 INTRODUCTION AND SITE BACKGROUND

On behalf of BTA Oil Producers (BTA), NOVA Safety and Environmental (NOVA) has prepared this Site Closure Request and Response to Letter of Violation for the site known as GEM 8705 JV-P No. 004 Battery. The GEM 8705 JV-P No. 004 Tank Battery is an active oil and gas tank battery operated by BTA Oil Producers. The release site is located in the Unit N, Section 2, Township 20 South, Range 33 East, Lea County, New Mexico and the site is located on property is owned by The State of New Mexico. A site location map is provided as Figure 1.

On July 19, 2007, BTA was issued a Letter of Violation by the New Mexico Oil Conservation (NMOCD), during a periodic inspection. The inspector, Mr. Buddy Hill cited BTA with a violation for a previous crude oil spill, which had not been remediated to NMOCD specifications. The crude oil spill observed by Mr. Hill appears to be associated with a release which occurred on November 19, 2006. Mr. Hill also cited BTA with a violation for a drip pan located beneath a salt water disposal transfer pump, which had overflowed due to recent heavy rains in the area. Mr. Hill further observed the perimeter battery fencing was in need of repair and observed that there was evidence indicating livestock had been inside the perimeter fence. The Letter of Violation is provided as Appendix B. A site map illustrating sample collection locations and other site details is provided as Figure 2. The Initial, Final and an Amended Final Release Notification and Corrective Action (Form C-141) are provided as Appendix C.

2.0 NMOCD SITE CLASSIFICATION

Groundwater at this site is encountered at a depth of approximately one hundred feet below ground surface (bgs). This depth to groundwater results in a score of 10 being assigned to this site based on the NMOCD ranking criteria. The distance to the nearest water source exceeds 1,000 feet, resulting in 0 points being assigned to the site on this ranking criterion. There is no surface water body located with 1,000 feet of the site, resulting in 0 points being assigned on this ranking criterion.

The NMOCD's *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, 1993), indicates the GEM 8705 JV-P No. 004 Battery site has a ranking score of 10 points. The soil cleanup levels for a site with a ranking of 10 requires benzene concentrations below 10 mg/Kg, total benzene, toluene, ethylbenzene and xylene (BTEX) concentrations below 50 mg/Kg and total petroleum hydrocarbons gasoline range organics / diesel range organics (TPH-GRO/DRO) concentrations below 1,000 mg/Kg.

3.0 SUMMARY OF FIELD ACTIVITIES

On August 21 through 29, 2007, a backhoe and hand labor was utilized to excavate hydrocarbon impacted soil observed inside the secondary containment berm at the GEM 8705 JV-P No. 004 Battery. The impacted soil was stockpiled outside the battery containment on the caliche pad pending laboratory analysis.

On August 24, 2007, soil samples were collected from the excavation floor to evaluate total petroleum hydrocarbon (TPH) concentrations on the excavation floor adjacent to the oil and

produced water storage tanks. The six soil samples were collected utilizing standard industry sampling protocol and were submitted to TraceAnalysis, Inc. of Lubbock, Texas for determination of TPH concentrations using EPA method SW 846-8015b. A Site and Sample Location Map is provided as Figure 2.

The analytical results indicated the concentrations of TPH ranged from below the laboratory method detection limit (MDL) of 50 mg/Kg in soil samples W-1@2', E-1@2', NW-1@2' and SW-1@2' to 7,766 mg/Kg in soil sample NE-1 @ 2'. The soil sample exhibiting the highest concentration of Gasoline Range Organics (GRO) was analyzed for constituents of benzene, toluene, ethylbenzene and xylene (BTEX) using EPA method SW 846-8021b. Soil sample SE-1@2' exhibited a GRO concentration of 345 mg/Kg and was submitted for determination of BTEX concentrations. The analytical results indicated benzene concentrations were below the MDL of 0.05 mg/Kg and concentrations of total BTEX were 0.677 mg/Kg. Based on the analytical results of the soil samples collected on August 24, 2007, two areas (NE-1 and SE-1) requiring additional excavation were identified. Confirmation Soil Sample Analytical Results are summarized in Table 1 and laboratory reports are provided in Appendix A.

On August 29, 2007, a backhoe was utilized to remove additional impacted soil from the floor of the excavation surrounding sample points NE-1 and SE-1. The excavated soil was added to the previously stockpiled soil on the caliche pad. Following the excavation activities, additional soil samples were collected from the newly excavated areas. The soil samples, NE-2 and SE-2 were analyzed for concentrations of TPH. The analytical results indicated the TPH concentrations of soil samples NE-2 and SE-2 were below the MDL of 50 mg/Kg. A soil sample was collected from the floor of the excavation located west of the battery circulation pump (W. of Circ. Pump) and the shallow excavation east of the heater treaters (E of HT). The analytical results for TPH concentrations indicated both soil samples were below the MDL of 50 mg/Kg.

A soil sample was collected on August 29, 2007, from the soil stockpile and submitted to the laboratory to evaluate the TPH concentration of the stockpile and its final disposition. The analytical results indicated the TPH concentration of the stockpile soil sample (SP-1) was 1,009 mg/Kg. Based on the analytical results of the initial stockpile soil sample (SP-1) the stockpile soil was re-blended and re-sampled (SP-E and SP-W) on September 14, 2004. The re-blended stockpile samples were submitted to the laboratory for determination of TPH concentrations using EPA method SW 846-8015b. The analytical results indicated the TPH concentration of soil stockpile sample SP-E was 569 mg/Kg and the TPH concentration of sample SP-W was 419 mg/Kg. Soil stockpile sample SP-W was submitted for determination of BTEX constituents using EPA method SW 846-8021b. The analytical results indicated all of the constituent concentrations of BTEX were below the MDL of 0.02 mg/Kg.

On September 20, 2007, based on laboratory analytical confirmation results below the NMOCD regulatory standard, NOVA on behalf of BTA, requested permission to backfill the GEM 8705 JV-P No. 004 Battery excavation with blended soil stockpiled onsite. On September 20, 2007, the NMOCD – Hobbs District office approved the backfilling of the excavation with the blended soil.

On September 26-27, 2007, the excavation was backfilled with blended soil and contoured. The release site is an active tank battery and no re-vegetation is planned at this time.

4.0 SITE CLOSURE REQUEST

The analytical results of final confirmation excavation floor soil samples indicate benzene, total BTEX and TPH concentrations are below the required NMOCD regulatory levels of 10 mg/Kg, 50 mg/Kg and 1,000 mg/Kg, respectively.

Based on the analytical results of confirmation soil samples, NOVA recommends that BTA provide the NMOCD Hobbs district office a copy of this Site Closure Request and Response to Letter of Violation Request and request the NMOCD approve site closure of the GEM 8705 JV-P No. 004 Battery.

5.0 RESPONSE TO LETTER OF VIOLATION

BTA has addressed the elements of the Letter of Violation issued on July 19, 2007 in the following manner:

- *Drip pan under SWD pump full and running over, gear oil and water.*

  The drip pan located beneath the salt water disposal transfer pump has been emptied and replaced with a new fiberglass pan. BTA has also positioned the facility circulation pump inside a fiberglass containment to contain any hydrocarbon release which might occur from this equipment.

- *Front area of battery dyke has had spill, not cleaned up.*

  The hydrocarbon impacted soil observed by the NMOCD inspector, inside the secondary containment berm has been remediated as described in Section 3.0 of this report.

- *Fence around battery is in need of repair, cattle have been in spill area.*

  The secondary containment berm was rebuilt to EPA Spill Prevention, Control and Countermeasure (SPCC) specifications, requiring 110% containment of largest capacity vessel and six inches of "free board". The battery perimeter fencing has been replaced with new cemented corner posts and new fencing materials were used to inhibit livestock from entering the facility.

Having addressed the elements of the Letter of Violation, BTA requests a compliance inspection of GEM 8705 JV-P No. 004 Battery by representatives of the NMOCD.

6.0 LIMITATIONS

NOVA has prepared this *Site Closure Request and Response to Letter of Violation* to the best of its ability. No other warranty, expressed or implied, is made or intended. NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This *Site Closure Request and Response to Letter of Violation* has been prepared for the benefit of BTA. The information contained in this report including all exhibits and attachments may not be used by any other party without the express written consent of NOVA and/or BTA.

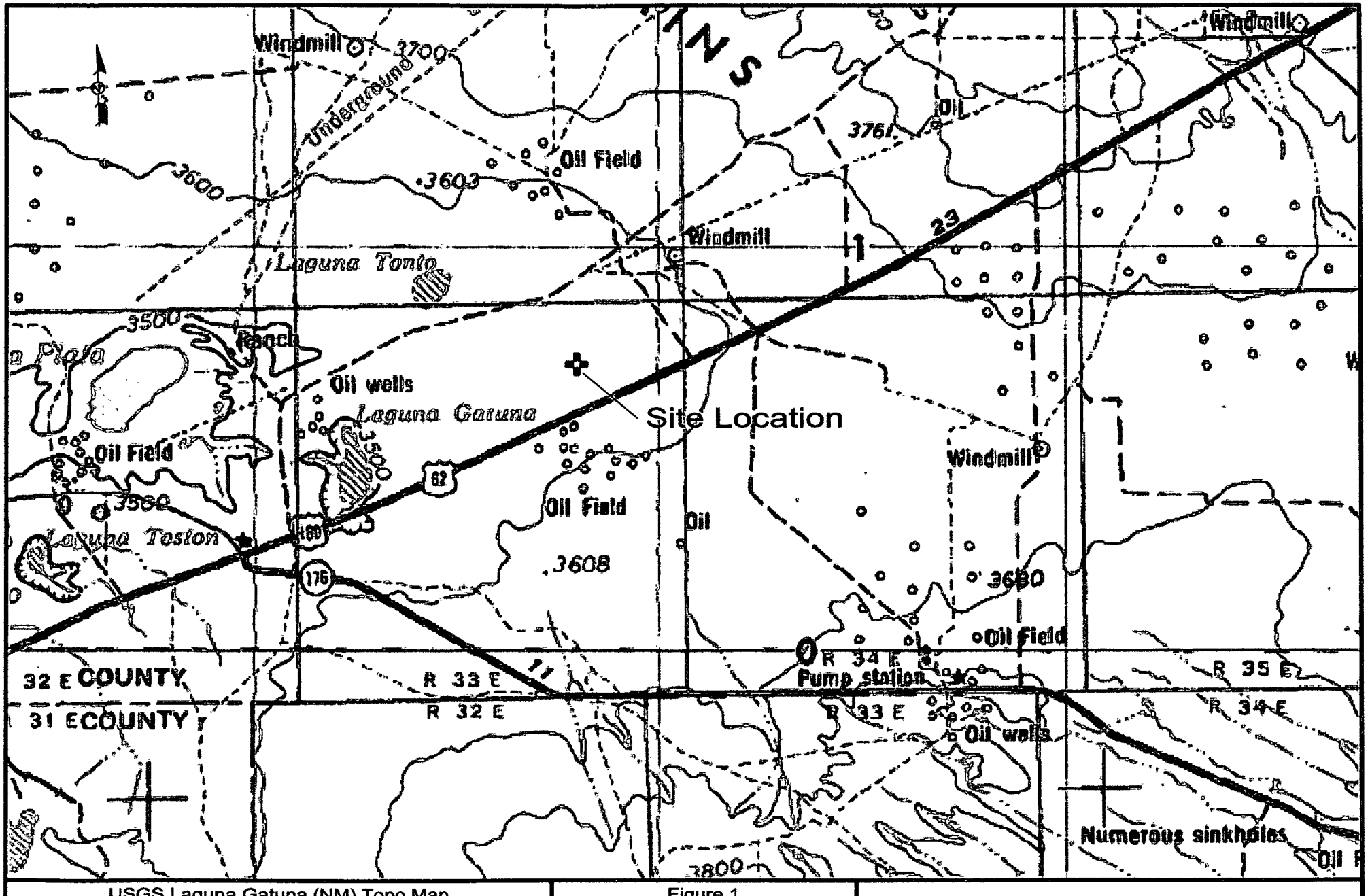
7.0 DISTRIBUTION

Copy 1:
Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240

Copy 2:
Buddy Hill
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240

Copy 3:
Joseph A. (Skip) Baca
BTA Oil Producers
104 S. Pecos
Midland, Texas 79701
sbaca@btaoil.com

Copy 3:
NOVA Safety and Environmental.
2057 Commerce Drive
Midland, Texas 79703
cstanley@novatraining.cc



USGS Laguna Gatuna (NM) Topo Map

4 2 0 2 4

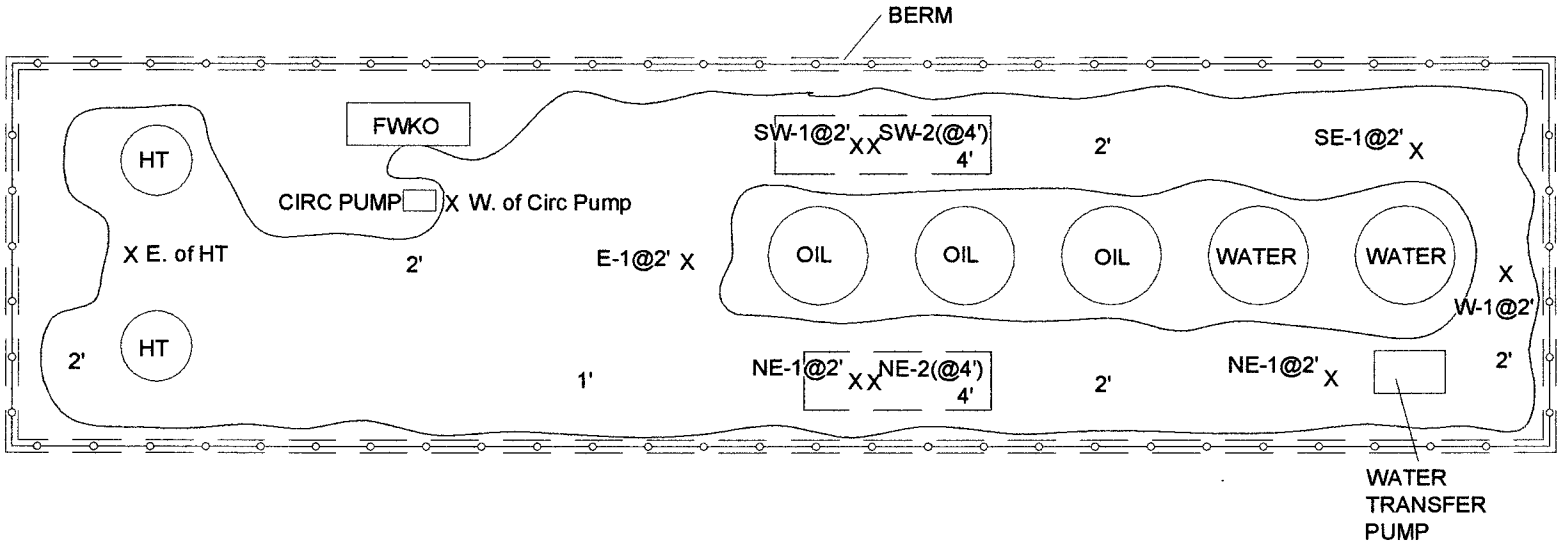
Distance in Miles

Figure 1
Site Location Map
GEM 8705 JV-P No. 004 Battery
Lea County, NM
BTA Oil Producers

NOVA Safety and Environmental

NOVA safety and environmental

Scale 1" = 2 Miles	CAD By CDS	Checked By CDS
October 5, 2007	N 32° 35' 45 33"	W 103° 38' 10 78"



30 15 0 15 30

Distance in Feet

Legend

X Floor Soil Sample

Initial Excavation Limits

Barbed-Wire Fence

Deeper Excavation

Berm

Figure 2
Site Map and
Soil Sample Locations

BTA Oil Producers
GEM 8705 JV-P No. 004 Battery
Lea County, New Mexico

NOVA Safety and Environmental

NOVA safety and environmental

Scale 1" = 30'	Prep By DGC	Checked By CDS
September 13, 2007		

TABLE 1
BTA Oil Producers
Confirmation Soil Sample Analytical Results
GEM 8705 JV-P No. 004 Battery

SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	SOIL STATUS	Method SW-8015b			Method SW 846-8021b				
				GRO C6-C12 mg/Kg	DRO >C12-C35 mg/Kg	Total TPH C6-C35 mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylene mg/Kg	Total BTEX mg/Kg
NMOCD REGULATORY STANDARD						**1000**	**10**				**50**
8/24/2007	W-1 @ 2'	2'	In-Situ	<1.0	<50	<50					
8/24/2007	E-1 @ 2'	2'	In-Situ	<1.0	<50	<50					
8/24/2007	NE-1 @ 2'	2'	Excavated	136	7630	**7766**					
8/24/2007	NW-1 @ 2'	2'	In-Situ	<1.0	<50	<50					
8/24/2007	SE-1 @ 2'	2'	Excavated	345	4820	**5165**	<0.05	<0.05	<0.05	0.667	0.667
8/24/2007	SW-1 @ 2'	2'	In-Situ	<1.0	<50	<50					
8/29/2007	NE-2	4'	In-Situ	1.72	<50	<50					
8/29/2007	SE-2	4'	In-Situ	<1.0	<50	<50					
8/29/2007	W. of Circ. Pump	2'	In-Situ	13.2	<50	<50					
8/29/2007	E of HT	1'	In-Situ	5.77	<50	<50					
8/29/2007	SP-1	Stockpile	Blended	55.3	954	**1009.3**					
9/14/2007	SP-E	Stockpile	Backfill	37.4	532	569.4					
9/14/2007	SP-W	Stockpile	Backfill	46.3	419	465.3	<0.02	<0.02	<0.02	<0.02	<0.02

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: August 31, 2007

Work Order: 7082725

Project Location: SW of Hobbs,NM
Project Name: Gem Battery #4
Project Number: Gem Battery #4

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
134538	W-1 @ 2'	soil	2007-08-24	12:00	2007-08-27
134539	E-1 @ 2'	soil	2007-08-24	12:05	2007-08-27
134540	NE-1 @ 2'	soil	2007-08-24	12:10	2007-08-27
134541	NW-1 @ 2'	soil	2007-08-24	12:15	2007-08-27
134542	SE-1 @ 2'	soil	2007-08-24	12:20	2007-08-27
134543	SW-1 @ 2'	soil	2007-08-24	12:30	2007-08-27

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.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 134538 - W-1 @ 2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40569	Date Analyzed:	2007-08-28	Analyzed By:	
Prep Batch:	35093	Sample Preparation:	2007-08-28	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		<50.0		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		164	mg/Kg	1	150	109	17.3 - 169.6

Sample: 134538 - W-1 @ 2'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40556	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35079	Sample Preparation:	2007-08-27	Prepared By:	

Comment: Run 8021B on highest GRO for this COC (samples 134538-134543)

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		<1.00		mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.807	mg/Kg	1	1.00	81	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	50.8 - 131.6

Sample: 134539 - E-1 @ 2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40569	Date Analyzed:	2007-08-28	Analyzed By:	
Prep Batch:	35093	Sample Preparation:	2007-08-28	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		<50.0		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		164	mg/Kg	1	150	109	17.3 - 169.6

Sample: 134539 - E-1 @ 2'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40556	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35079	Sample Preparation:	2007-08-27	Prepared By:	

Comment: Run 8021B on highest GRO for this COC (samples 134538-134543)

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.774	mg/Kg	1	1.00	77	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.08	mg/Kg	1	1.00	108	50.8 - 131.6

Sample: 134540 - NE-1 @ 2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40569	Date Analyzed:	2007-08-28	Analyzed By:	
Prep Batch:	35093	Sample Preparation:	2007-08-28	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**7630**	mg/Kg	10	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	429	mg/Kg	10	150	286	17.3 - 169.6

Sample: 134540 - NE-1 @ 2'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40556	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35079	Sample Preparation:	2007-08-27	Prepared By:	

Comment: Run 8021B on highest GRO for this COC (samples 134538-134543)

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**136**	mg/Kg	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[2]	4.89	mg/Kg	5	5.00	98	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		6.26	mg/Kg	5	5.00	125	50.8 - 131.6

[1] High surrogate recovery due to peak interference.
[2] High surrogate recovery due to peak interference.

Sample: 134541 - NW-1 @ 2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40569	Date Analyzed:	2007-08-28	Analyzed By:	
Prep Batch:	35093	Sample Preparation:	2007-08-28	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		182	mg/Kg	1	150	121	17.3 - 169.6

Sample: 134541 - NW-1 @ 2'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40556	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35079	Sample Preparation:	2007-08-27	Prepared By:	

Comment: Run 8021B on highest GRO for this COC (samples 134538-134543)

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.801	mg/Kg	1	1.00	80	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.02	mg/Kg	1	1.00	102	50.8 - 131.6

Sample: 134542 - SE-1 @ 2'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	40551	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35079	Sample Preparation:	2007-08-27	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0500	mg/Kg	5	0.0100
Toluene		<0.0500	mg/Kg	5	0.0100
Ethylbenzene		<0.0500	mg/Kg	5	0.0100
Xylene		**0.667**	mg/Kg	5	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.94	mg/Kg	5	5.00	99	39.6 - 116
4-Bromofluorobenzene (4-BFB)		5.75	mg/Kg	5	5.00	115	47.3 - 144.2

Sample: 134542 - SE-1 @ 2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40569	Date Analyzed:	2007-08-28	Analyzed By:	
Prep Batch:	35093	Sample Preparation:	2007-08-28	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**4820**		mg/Kg	10	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		234	mg/Kg	10	150	156	17.3 - 169.6

Sample: 134542 - SE-1 @ 2'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40556	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35079	Sample Preparation:	2007-08-27	Prepared By:	

Comment: Run 8021B on highest GRO for this COC (samples 134538-134543)

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**345**		mg/Kg	5	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		4.06	mg/Kg	5	5.00	81	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)	[3]	6.87	mg/Kg	5	5.00	137	50.8 - 131.6

Sample: 134543 - SW-1 @ 2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40569	Date Analyzed:	2007-08-28	Analyzed By:	
Prep Batch:	35093	Sample Preparation:	2007-08-28	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		<50.0		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		153	mg/Kg	1	150	102	17.3 - 169.6

[3]High surrogate recovery due to peak interference.

Sample: 134543 - SW-1 @ 2'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40556	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35079	Sample Preparation:	2007-08-27	Prepared By:	

Comment: Run 8021B on highest GRO for this COC (samples 134538-134543)

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.867	mg/Kg	1	1.00	87	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.08	mg/Kg	1	1.00	108	50.8 - 131.6

Method Blank (1) QC Batch: 40551

QC Batch:	40551	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35079	QC Preparation:	2007-08-27	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.951	mg/Kg	1	1.00	95	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.982	mg/Kg	1	1.00	98	53.1 - 111.6

Method Blank (1) QC Batch: 40556

QC Batch:	40556	Date Analyzed:	2007-08-27	Analyzed By:	
Prep Batch:	35079	QC Preparation:	2007-08-27	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.932	mg/Kg	1	1.00	93	55.4 - 111.8

Method Blank (1) QC Batch: 40569

QC Batch: 40569 | Date Analyzed: 2007-08-28 | Analyzed By:
Prep Batch: 35093 | QC Preparation: 2007-08-28 | Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		125	mg/Kg	1	150	83	32.9 - 156.1

Laboratory Control Spike (LCS-1)

QC Batch: 40551 | Date Analyzed: 2007-08-27 | Analyzed By:
Prep Batch: 35079 | QC Preparation: 2007-08-27 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.983	mg/Kg	1	1.00	<0.00110	98	71.2 - 119
Toluene	1.01	mg/Kg	1	1.00	<0.00150	101	76.3 - 116.5
Ethylbenzene	1.00	mg/Kg	1	1.00	<0.00160	100	77.6 - 114
Xylene	3.00	mg/Kg	1	3.00	<0.00410	100	78.8 - 113.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.953	mg/Kg	1	1.00	<0.00110	95	71.2 - 119	3	20
Toluene	1.02	mg/Kg	1	1.00	<0.00150	102	76.3 - 116.5	1	20
Ethylbenzene	1.01	mg/Kg	1	1.00	<0.00160	101	77.6 - 114	1	20
Xylene	3.01	mg/Kg	1	3.00	<0.00410	100	78.8 - 113.9	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.946	0.909	mg/Kg	1	1.00	95	91	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.947	0.928	mg/Kg	1	1.00	95	93	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 40556 | Date Analyzed: 2007-08-27 | Analyzed By:
Prep Batch: 35079 | QC Preparation: 2007-08-27 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.07	mg/Kg	1	10.0	<0.739	81	56 - 105.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.18	mg/Kg	1	10.0	<0.739	92	56 - 105.2	13	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.962	0.943	mg/Kg	1	1.00	96	94	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.935	0.947	mg/Kg	1	1.00	94	95	67.2 - 119.2

Laboratory Control Spike (LCS-1)

QC Batch: 40569 | Date Analyzed: 2007-08-28 | Analyzed By:
Prep Batch: 35093 | QC Preparation: 2007-08-28 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	287	mg/Kg	1	250	<13.4	115	49.1 - 142.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	287	mg/Kg	1	250	<13.4	115	49.1 - 142.3	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	79.8	87.0	mg/Kg	1	150	53	58	49 - 133.2

Matrix Spike (MS-1) Spiked Sample: 134499

QC Batch: 40551 | Date Analyzed: 2007-08-27 | Analyzed By:
Prep Batch: 35079 | QC Preparation: 2007-08-27 | Prepared By:

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	[4]	1.33	mg/Kg	1	1.00	<0.00110	133	65.7 - 119.1
Toluene		1.38	mg/Kg	1	1.00	<0.00150	138	47.7 - 153.8
Ethylbenzene	[5]	1.41	mg/Kg	1	1.00	<0.00160	141	73.5 - 126.3
Xylene	[6]	4.19	mg/Kg	1	3.00	<0.00410	140	73.6 - 125.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	[7]	1.33	mg/Kg	1	1.00	<0.00110	133	65.7 - 119.1	0	20
Toluene		1.35	mg/Kg	1	1.00	<0.00150	135	47.7 - 153.8	2	20

continued ...

[4]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[5]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[6]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[7]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Ethylbenzene	[8]	1.39	mg/Kg	1	1.00	<0.00160	139	73.5 - 126.3	1	20
Xylene	[9]	4.10	mg/Kg	1	3.00	<0.00410	137	73.6 - 125.9	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.965	0.969	mg/Kg	1	1	96	97	51 - 109.6
4-Bromofluorobenzene (4-BFB)	1.03	1.02	mg/Kg	1	1	103	102	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 134538

QC Batch: 40556 | Date Analyzed: 2007-08-27 | Analyzed By:
Prep Batch: 35079 | QC Preparation: 2007-08-27 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.79	mg/Kg	1	10.0	<0.739	84	10 - 102.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.82	mg/Kg	1	10.0	<0.739	74	10 - 102.2	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.711	0.812	mg/Kg	1	1	71	81	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.04	1.03	mg/Kg	1	1	104	103	58 - 162.6

Matrix Spike (MS-1) Spiked Sample: 134538

QC Batch: 40569 | Date Analyzed: 2007-08-28 | Analyzed By:
Prep Batch: 35093 | QC Preparation: 2007-08-28 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	310	mg/Kg	1	250	<13.4	124	30.2 - 201.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	325	mg/Kg	1	250	<13.4	130	30.2 - 201.4	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

[8]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[9]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	150	156	mg/Kg	1	150	100	104	10 - 194

Standard (ICV-1)

QC Batch: 40551 Date Analyzed: 2007-08-27 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.101	101	85 - 115	2007-08-27
Toluene		mg/Kg	0.100	0.101	101	85 - 115	2007-08-27
Ethylbenzene		mg/Kg	0.100	0.101	101	85 - 115	2007-08-27
Xylene		mg/Kg	0.300	0.302	101	85 - 115	2007-08-27

Standard (CCV-1)

QC Batch: 40551 Date Analyzed: 2007-08-27 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.101	101	85 - 115	2007-08-27
Toluene		mg/Kg	0.100	0.102	102	85 - 115	2007-08-27
Ethylbenzene		mg/Kg	0.100	0.0985	98	85 - 115	2007-08-27
Xylene		mg/Kg	0.300	0.295	98	85 - 115	2007-08-27

Standard (ICV-1)

QC Batch: 40556 Date Analyzed: 2007-08-27 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.06	106	85 - 115	2007-08-27

Standard (CCV-1)

QC Batch: 40556 Date Analyzed: 2007-08-27 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.942	94	85 - 115	2007-08-27

Standard (ICV-1)

QC Batch: 40569 Date Analyzed: 2007-08-28 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	281	112	85 - 115	2007-08-28

Standard (CCV-1)

QC Batch: 40569 Date Analyzed: 2007-08-28 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	270	108	85 - 115	2007-08-28

LAB Order ID # 7082725 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

6015 Harris Pkwy, Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: NOVA SAFETY & ENVIRONMENTAL Phone #: 432-520-7720

Address: (Street, City, Zip) 2057 COMMERCE MIDLAND 79703 Fax #: 432-520-7701

Contact Person: CURT STANLEY E-mail: JKOONCE@NOVATRAINING.COM

Invoice to: (If different from above) BTA OIL CO. MIDLAND, TX ATTN: SILIP BALA

Project #: GEM BATTERY #4 Project Name: SAME.

Project Location (including state): 3W OF HOBBS, NM Sampler Signature: Curt Stanley for Joshua Rodriguez

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
134538	W-1@2'	1	4oz		X							X		8/24/07	12:00				X															
539	E-1@2'														12:05																			
540	NE-1@2'														12:10																			
541	NW-1@2'														12:15																			
542	SE-1@2'														12:20																			
543	SW-1@2'														12:30																			

Relinquished by: Date: 8/27/07 Time: 15:10

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received at Laboratory by: Date: 8/27/07 Time: 15:10

LAB USE ONLY

Intact: Y / N

Headspace: Y / N

Temp: 2.9 °

Log-in-Review:

REMARKS: RUN 8021B ON HIGHEST GRO.

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier #

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O C.

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TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: September 4, 2007

Work Order: 7083024

Project Location: SW of Hobbs,NM
Project Name: Gem Battery #4
Project Number: Gem Battery #4

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
134983	NE-2	soil	2007-08-29	15:15	2007-08-30
134984	SE-2	soil	2007-08-29	16:15	2007-08-30

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.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 134983 - NE-2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40641	Date Analyzed:	2007-08-30	Analyzed By:	
Prep Batch:	35154	Sample Preparation:	2007-08-30	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		162	mg/Kg	1	150	108	17.3 - 169.6

Sample: 134983 - NE-2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40736	Date Analyzed:	2007-08-31	Analyzed By:	
Prep Batch:	35212	Sample Preparation:	2007-08-31	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**1.72**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.767	mg/Kg	1	1.00	77	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.15	mg/Kg	1	1.00	115	50.8 - 131.6

Sample: 134984 - SE-2

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40641	Date Analyzed:	2007-08-30	Analyzed By:	
Prep Batch:	35154	Sample Preparation:	2007-08-30	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		177	mg/Kg	1	150	118	17.3 - 169.6

Sample: 134984 - SE-2

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40736	Date Analyzed:	2007-08-31	Analyzed By:	
Prep Batch:	35212	Sample Preparation:	2007-08-31	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.779	mg/Kg	1	1.00	78	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.08	mg/Kg	1	1.00	108	50.8 - 131.6

Method Blank (1) QC Batch: 40641

QC Batch: 40641 Date Analyzed: 2007-08-30 Analyzed By:
Prep Batch: 35154 QC Preparation: 2007-08-30 Prepared By:

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		64.2	mg/Kg	1	150	43	32.9 - 156.1

Method Blank (1) QC Batch: 40736

QC Batch: 40736 Date Analyzed: 2007-08-31 Analyzed By:
Prep Batch: 35212 QC Preparation: 2007-08-31 Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.932	mg/Kg	1	1.00	93	55.4 - 111.8

Laboratory Control Spike (LCS-1)

QC Batch: 40641 Date Analyzed: 2007-08-30 Analyzed By:
Prep Batch: 35154 QC Preparation: 2007-08-30 Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	236	mg/Kg	1	250	<13.4	94	49.1 - 142.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	243	mg/Kg	1	250	<13.4	97	49.1 - 142.3	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	104	94.7	mg/Kg	1	150	69	63	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 40736 | Date Analyzed: 2007-08-31 | Analyzed By:
Prep Batch: 35212 | QC Preparation: 2007-08-31 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.00	mg/Kg	1	10.0	<0.739	90	56 - 105.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.01	mg/Kg	1	10.0	<0.739	90	56 - 105.2	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.02	0.936	mg/Kg	1	1.00	102	94	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.946	0.950	mg/Kg	1	1.00	95	95	67.2 - 119.2

Matrix Spike (MS-1) Spiked Sample: 134890

QC Batch: 40641 | Date Analyzed: 2007-08-30 | Analyzed By:
Prep Batch: 35154 | QC Preparation: 2007-08-30 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	276	mg/Kg	1	250	<13.4	110	30.2 - 201.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	244	mg/Kg	1	250	<13.4	98	30.2 - 201.4	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	183	171	mg/Kg	1	150	122	114	10 - 194

Matrix Spike (MS-1) Spiked Sample: 134984

QC Batch: 40736 Date Analyzed: 2007-08-31 Analyzed By:
Prep Batch: 35212 QC Preparation: 2007-08-31 Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.44	mg/Kg	1	10.0	0.8009	76	10 - 102.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.24	mg/Kg	1	10.0	0.8009	84	10 - 102.2	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.734	0.780	mg/Kg	1	1	73	78	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.10	1.08	mg/Kg	1	1	110	108	58 - 162.6

Standard (ICV-1)

QC Batch: 40641 Date Analyzed: 2007-08-30 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	218	87	85 - 115	2007-08-30

Standard (CCV-1)

QC Batch: 40641 Date Analyzed: 2007-08-30 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	282	113	85 - 115	2007-08-30

Standard (ICV-1)

QC Batch: 40736 Date Analyzed: 2007-08-31 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.987	99	85 - 115	2007-08-31

Standard (CCV-1)

QC Batch: 40736 Date Analyzed: 2007-08-31 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.949	95	85 - 115	2007-08-31

LAB Order ID # 7083024 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: NOVA SAFETY & ENVIRONMENTAL Phone #: 432-520-7720

Address: (Street, City, Zip) 2057 COMMERCE MIDLAND 79703 Fax #: 432-520-7720

Contact Person: CURT STANLEY E-mail:

Invoice to: (If different from above) BTA OIL CO. ATTN: SKIP BRAA.

Project #: GEM #4 BATTERY Project Name: SAME

Project Location (including state): 10 OF HOBBS, NM Sampler Signature: Curt Stanley for J. Rodine

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
34183	NE-2	1	4oz		X							X		8/29/2007	3:15
184	SE-2	1	4oz		X							X		8/29	4:15

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
		X	X															
		X	X															

Relinquished by: Date: 9/30/07 Time: 10:30 Received by: Date: Time:

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received at laboratory by: Date: 9/30/07 Time: 10:30

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 3.4 °
Log-In-Review

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # carry in

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: September 4, 2007

Work Order: 7082945

Project Location: SW of Hobbs,NM
Project Name: Gem Battery #4
Project Number: Gem Battery #4

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
134890	W. of Circ. Pump	soil	2007-08-29	10:05	2007-08-29
134891	E of HT	soil	2007-08-29	10:10	2007-08-29
134892	SP-1	soil	2007-08-29	10:15	2007-08-29

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.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 134890 - W. of Circ. Pump

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40641	Date Analyzed:	2007-08-30	Analyzed By:	
Prep Batch:	35154	Sample Preparation:	2007-08-30	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		218	mg/Kg	1	150	145	17.3 - 169.6

Sample: 134890 - W. of Circ. Pump

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40736	Date Analyzed:	2007-08-31	Analyzed By:	
Prep Batch:	35212	Sample Preparation:	2007-08-31	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**13.2**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.824	mg/Kg	1	1.00	82	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.14	mg/Kg	1	1.00	114	50.8 - 131.6

Sample: 134891 - E of HT

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40641	Date Analyzed:	2007-08-30	Analyzed By:	
Prep Batch:	35154	Sample Preparation:	2007-08-30	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		204	mg/Kg	1	150	136	17.3 - 169.6

Sample: 134891 - E of HT

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40736	Date Analyzed:	2007-08-31	Analyzed By:	
Prep Batch:	35212	Sample Preparation:	2007-08-31	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**5.77**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[1]	1.01	mg/Kg	1	1.00	101	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.03	mg/Kg	1	1.00	103	50.8 - 131.6

Sample: 134892 - SP-1

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	40641	Date Analyzed:	2007-08-30	Analyzed By:	
Prep Batch:	35154	Sample Preparation:	2007-08-30	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**954**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[2]	520	mg/Kg	1	150	347	17.3 - 169.6

Sample: 134892 - SP-1

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	40736	Date Analyzed:	2007-08-31	Analyzed By:	
Prep Batch:	35212	Sample Preparation:	2007-08-31	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**55.3**	mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.70	mg/Kg	2	2.00	85	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		2.25	mg/Kg	2	2.00	112	50.8 - 131.6

Method Blank (1) QC Batch: 40641

QC Batch:	40641	Date Analyzed:	2007-08-30	Analyzed By:	
Prep Batch:	35154	QC Preparation:	2007-08-30	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

[1] High surrogate recovery due to peak interference.
[2] High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		64.2	mg/Kg	1	150	43	32.9 - 156.1

Method Blank (1) QC Batch: 40736

QC Batch: 40736 Date Analyzed: 2007-08-31 Analyzed By:
Prep Batch: 35212 QC Preparation: 2007-08-31 Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.932	mg/Kg	1	1.00	93	55.4 - 111.8

Laboratory Control Spike (LCS-1)

QC Batch: 40641 Date Analyzed: 2007-08-30 Analyzed By:
Prep Batch: 35154 QC Preparation: 2007-08-30 Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	236	mg/Kg	1	250	<13.4	94	49.1 - 142.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	243	mg/Kg	1	250	<13.4	97	49.1 - 142.3	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	104	94.7	mg/Kg	1	150	69	63	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 40736 Date Analyzed: 2007-08-31 Analyzed By:
Prep Batch: 35212 QC Preparation: 2007-08-31 Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	9.00	mg/Kg	1	10.0	<0.739	90	56 - 105.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.01	mg/Kg	1	10.0	<0.739	90	56 - 105.2	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.02	0.936	mg/Kg	1	1.00	102	94	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.946	0.950	mg/Kg	1	1.00	95	95	67.2 - 119.2

Matrix Spike (MS-1) Spiked Sample: 134890

QC Batch: 40641 | Date Analyzed: 2007-08-30 | Analyzed By:
Prep Batch: 35154 | QC Preparation: 2007-08-30 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	276	mg/Kg	1	250	<13.4	110	30.2 - 201.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	244	mg/Kg	1	250	<13.4	98	30.2 - 201.4	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	183	171	mg/Kg	1	150	122	114	10 - 194

Matrix Spike (MS-1) Spiked Sample: 134984

QC Batch: 40736 | Date Analyzed: 2007-08-31 | Analyzed By:
Prep Batch: 35212 | QC Preparation: 2007-08-31 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.44	mg/Kg	1	10.0	0.8009	76	10 - 102.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.24	mg/Kg	1	10.0	0.8009	84	10 - 102.2	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.734	0.780	mg/Kg	1	1	73	78	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.10	1.08	mg/Kg	1	1	110	108	58 - 162.6

Standard (ICV-1)

QC Batch: 40641 Date Analyzed: 2007-08-30 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	218	87	85 - 115	2007-08-30

Standard (CCV-1)

QC Batch: 40641 Date Analyzed: 2007-08-30 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	282	113	85 - 115	2007-08-30

Standard (ICV-1)

QC Batch: 40736 Date Analyzed: 2007-08-31 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.987	99	85 - 115	2007-08-31

Standard (CCV-1)

QC Batch: 40736 Date Analyzed: 2007-08-31 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.949	95	85 - 115	2007-08-31

LAB Order ID # 7082945 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: NOVA SAFETY & ENVIRONMENTAL Phone #: 432-520-7720

Address: (Street, City, Zip) 2057 COMMERCE, MIDLAND, 79703 Fax #: 432-520-7791

Contact Person: CURT STANLEY E-mail: JKOONCE@NOVATRAINING.COM

Invoice to: (If different from above) BTA Oil ATTN: SKIP BACA.

Project #: GEM #4 BATTERY Project Name: SAME

Project Location (including state): WEST OF HOBBS, NM Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
13889	W OF CIRC. PUMP.	1	40z		X							X		8/29/2007	10:05
891	E OF HT	↓	↓		↓							↓			10:10
892	SP-1	↓	↓		↓							↓		↓	10:15

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
			X															

Relinquished by: Date: 8/29/07 Time: 4:58 Received by: Dawn Caudle Date: 8/29/07 Time: 16:58

Relinquished by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Received at Laboratory by: Date: Time:

LAB USE ONLY

Intact (Y) / N

Headspace Y / N

Temp 3.6 °C

Log-in-Review

REMARKS: all tests - Midland

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # CARRY IN

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Julie Koonce
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: September 19, 2007

Work Order: 7091437

Project Location: SW of Hobbs,NM
Project Name: Gem Battery #4
Project Number: Gem Battery #4

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
136532	SP-E	soil	2007-09-14	12:40	2007-09-14
136533	SP-W	soil	2007-09-14	12:50	2007-09-14

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.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 136532 - SP-E

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41192	Date Analyzed:	2007-09-18	Analyzed By:	
Prep Batch:	35587	Sample Preparation:	2007-09-18	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
DRO		**532**		mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		196	mg/Kg	1	150	131	17.3 - 169.6

Sample: 136532 - SP-E

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41237	Date Analyzed:	2007-09-18	Analyzed By:	
Prep Batch:	35553	Sample Preparation:	2007-09-17	Prepared By:	

Comment: Run 8021B on highest GRO

Parameter	Flag	Result	RL	Units	Dilution	RL
GRO		**37.4**		mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[1]	1.82	mg/Kg	2	2.00	91	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.85	mg/Kg	2	2.00	92	50.8 - 131.6

Sample: 136533 - SP-W

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	41232	Date Analyzed:	2007-09-18	Analyzed By:	
Prep Batch:	35553	Sample Preparation:	2007-09-17	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.0200		mg/Kg	2	0.0100
Toluene		<0.0200		mg/Kg	2	0.0100
Ethylbenzene		<0.0200		mg/Kg	2	0.0100
Xylene		<0.0200		mg/Kg	2	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.31	mg/Kg	2	2.00	66	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.54	mg/Kg	2	2.00	77	47.3 - 144.2

[1] High surrogate recovery due to peak interference.

Sample: 136533 - SP-W

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	41192	Date Analyzed:	2007-09-18	Analyzed By:	
Prep Batch:	35587	Sample Preparation:	2007-09-18	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**419**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		147	mg/Kg	1	150	98	17.3 - 169.6

Sample: 136533 - SP-W

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	41237	Date Analyzed:	2007-09-18	Analyzed By:	
Prep Batch:	35553	Sample Preparation:	2007-09-17	Prepared By:	

Comment: Run 8021B on highest GRO

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**46.3**	mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.71	mg/Kg	2	2.00	86	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.86	mg/Kg	2	2.00	93	50.8 - 131.6

Method Blank (1) QC Batch: 41192

QC Batch:	41192	Date Analyzed:	2007-09-18	Analyzed By:	
Prep Batch:	35587	QC Preparation:	2007-09-18	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
DRO		<13.4	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		114	mg/Kg	1	150	76	32.9 - 156.1

Method Blank (1) QC Batch: 41232

QC Batch:	41232	Date Analyzed:	2007-09-18	Analyzed By:	
Prep Batch:	35553	QC Preparation:	2007-09-17	Prepared By:	

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00110	mg/Kg	0.01
Toluene		<0.00150	mg/Kg	0.01
Ethylbenzene		<0.00160	mg/Kg	0.01
Xylene		<0.00410	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.633	mg/Kg	1	1.00	63	58.2 - 121.3
4-Bromofluorobenzene (4-BFB)		0.683	mg/Kg	1	1.00	68	53.1 - 111.6

Method Blank (1) QC Batch: 41237

QC Batch: 41237 Date Analyzed: 2007-09-18 Analyzed By:
Prep Batch: 35553 QC Preparation: 2007-09-17 Prepared By:

Parameter	Flag	MDL Result	Units	RL
GRO		<0.739	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.996	mg/Kg	1	1.00	100	67.8 - 103
4-Bromofluorobenzene (4-BFB)		0.938	mg/Kg	1	1.00	94	55.4 - 111.8

Laboratory Control Spike (LCS-1)

QC Batch: 41192 Date Analyzed: 2007-09-18 Analyzed By:
Prep Batch: 35587 QC Preparation: 2007-09-18 Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	298	mg/Kg	1	250	<13.4	119	49.1 - 142.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	343	mg/Kg	1	250	<13.4	137	49.1 - 142.3	14	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	121	114	mg/Kg	1	150	81	76	49 - 133.2

Laboratory Control Spike (LCS-1)

QC Batch: 41232 Date Analyzed: 2007-09-18 Analyzed By:
Prep Batch: 35553 QC Preparation: 2007-09-17 Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.852	mg/Kg	1	1.00	<0.00110	85	71.2 - 119
Toluene	0.909	mg/Kg	1	1.00	<0.00150	91	76.3 - 116.5
Ethylbenzene	0.885	mg/Kg	1	1.00	<0.00160	88	77.6 - 114
Xylene	2.72	mg/Kg	1	3.00	<0.00410	91	78.8 - 113.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.861	mg/Kg	1	1.00	<0.00110	86	71.2 - 119	1	20
Toluene	0.888	mg/Kg	1	1.00	<0.00150	89	76.3 - 116.5	2	20
Ethylbenzene	0.881	mg/Kg	1	1.00	<0.00160	88	77.6 - 114	0	20
Xylene	2.69	mg/Kg	1	3.00	<0.00410	90	78.8 - 113.9	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.570	0.569	mg/Kg	1	1.00	57	57	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.638	0.623	mg/Kg	1	1.00	64	62	56.2 - 118.8

Laboratory Control Spike (LCS-1)

QC Batch: 41237 | Date Analyzed: 2007-09-18 | Analyzed By:
Prep Batch: 35553 | QC Preparation: 2007-09-17 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.96	mg/Kg	1	10.0	<0.739	80	56 - 105.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	8.15	mg/Kg	1	10.0	<0.739	82	56 - 105.2	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.943	0.964	mg/Kg	1	1.00	94	96	61.1 - 148.1
4-Bromofluorobenzene (4-BFB)	0.929	0.952	mg/Kg	1	1.00	93	95	67.2 - 119.2

Matrix Spike (MS-1) Spiked Sample: 136427

QC Batch: 41192 | Date Analyzed: 2007-09-18 | Analyzed By:
Prep Batch: 35587 | QC Preparation: 2007-09-18 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	302	mg/Kg	1	250	<13.4	121	30.2 - 201.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	304	mg/Kg	1	250	<13.4	122	30.2 - 201.4	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Triacontane	113	113	mg/Kg	1	150	75	75	10 - 194

Matrix Spike (MS-1) Spiked Sample: 136260

QC Batch: 41232 | Date Analyzed: 2007-09-18 | Analyzed By:
Prep Batch: 35553 | QC Preparation: 2007-09-17 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.917	mg/Kg	1	1.00	<0.00110	92	65.7 - 119.1
Toluene	1.02	mg/Kg	1	1.00	<0.00150	102	47.7 - 153.8
Ethylbenzene	1.04	mg/Kg	1	1.00	<0.00160	104	73.5 - 126.3
Xylene	3.19	mg/Kg	1	3.00	<0.00410	106	73.6 - 125.9

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.876	mg/Kg	1	1.00	<0.00110	88	65.7 - 119.1	5	20
Toluene	0.961	mg/Kg	1	1.00	<0.00150	96	47.7 - 153.8	6	20
Ethylbenzene	0.962	mg/Kg	1	1.00	<0.00160	96	73.5 - 126.3	8	20
Xylene	2.96	mg/Kg	1	3.00	<0.00410	99	73.6 - 125.9	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.595	0.635	mg/Kg	1	1	60	64	51 - 109.6
4-Bromofluorobenzene (4-BFB)	0.700	0.695	mg/Kg	1	1	70	70	60.3 - 124.3

Matrix Spike (MS-1) Spiked Sample: 136260

QC Batch: 41237 | Date Analyzed: 2007-09-18 | Analyzed By:
Prep Batch: 35553 | QC Preparation: 2007-09-17 | Prepared By:

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.21	mg/Kg	1	10.0	<0.739	82	10 - 102.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	8.16	mg/Kg	1	10.0	<0.739	82	10 - 102.2	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.723	0.732	mg/Kg	1	1	72	73	47.2 - 84.2
4-Bromofluorobenzene (4-BFB)	1.04	1.05	mg/Kg	1	1	104	105	58 - 162.6

Standard (ICV-1)

QC Batch: 41192 Date Analyzed: 2007-09-18 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	242	97	85 - 115	2007-09-18

Standard (CCV-1)

QC Batch: 41192 Date Analyzed: 2007-09-18 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	231	92	85 - 115	2007-09-18

Standard (ICV-1)

QC Batch: 41232 Date Analyzed: 2007-09-18 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0869	87	85 - 115	2007-09-18
Toluene		mg/Kg	0.100	0.0903	90	85 - 115	2007-09-18
Ethylbenzene		mg/Kg	0.100	0.0882	88	85 - 115	2007-09-18
Xylene		mg/Kg	0.300	0.268	89	85 - 115	2007-09-18

Standard (CCV-1)

QC Batch: 41232 Date Analyzed: 2007-09-18 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0918	92	85 - 115	2007-09-18
Toluene		mg/Kg	0.100	0.0991	99	85 - 115	2007-09-18
Ethylbenzene		mg/Kg	0.100	0.0962	96	85 - 115	2007-09-18
Xylene		mg/Kg	0.300	0.293	98	85 - 115	2007-09-18

Standard (ICV-1)

QC Batch: 41237 Date Analyzed: 2007-09-18 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.964	96	85 - 115	2007-09-18

Standard (CCV-1)

QC Batch: 41237 Date Analyzed: 2007-09-18 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.991	99	85 - 115	2007-09-18

LAB Order ID # 7091437 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296
5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313
200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443
6015 Harris Pkwy., Suite 110, Ft. Worth, Texas 76132, Tel (817) 201-5260

Company Name: NOVA SAFETY & ENVIRONMENTAL Phone #: 432-520-7720
Address: (Street, City, Zip) 2057 COMMERCE MIDLAND, 79703 Fax #: 432-520-7710
Contact Person: CURT STANLEY E-mail: JLOOMIS@NOVATRAINING.COM
Invoice to: (If different from above) BTA OIL CO.
Project #: GEM BATTERY #4 Project Name: SAME
Project Location (including state): NE. OF CARLSBAD, NM Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
136532	SP-E	1	4oz		X							X		9/14/07	12:40
136533	SP-W	1	4oz		X							X		9/14/07	12:50

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content						Turn Around Time if different from standard	Hold
		X	X																				

Relinquished by: Date: 9/14/07 Time: 16:12 Received by: Date: Time:
Relinquished by: Date: Time: Received by: Date: Time:
Relinquished by: Date: Time: Received at Laboratory by: Date: 9/14/07 Time: 1612

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 3.1 °C
Log-in-Review AS

REMARKS: RUN 8021B ON HIGHEST GRO.
☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # Carry In

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

Field Inspection Program
"Preserving the Integrity of Our Environment"

24-Jul-07

BTA OIL PRODUCERS
104 S PECOS
MIDLAND TX 79701

LETTER OF VIOLATION - Inspection

Dear Operator:

The following inspection(s) indicate that the well, equipment, location or operational status of the well(s) failed to meet standards of the New Mexico Oil Conservation Division as described in the detail section below. To comply with standards imposed by Rules and Regulations of the Division, corrective action must be taken immediately and the situation brought into compliance. The detail section indicates preliminary findings and/or probable nature of the violation. This determination is based on an inspection of your well or facility by an inspector employed by the Oil Conservation Division on the date(s) indicated.

Please notify the proper district office of the Division, in writing, of the date corrective actions are scheduled to be made so that arrangements can be made to reinspect the well and/or facility.

INSPECTION DETAIL SECTION

LYNCH 8212 JV-P No.001 J-24-20S-34E **30-025-28743-00-00**

Inspection Date	Type Inspection	Inspector	Violation?	*Significant Non-Compliance?	Corrective Action Due By:	Inspection No.
07/19/2007	Routine/Periodic	Buddy Hill	Yes	No	10/22/2007	iLWH0720047003

Violations
Absent Well Identification Signs (Rule 103) → endorsed 7/25/07 pdi

Comments on Inspection: NO SIGN @ TANK BATTERY..NEEDS A SIGN PLACED AT BATTERY..CHECK FOR GAS VENTING EXEMPTION..NO HOMES NEARBY..VENTING THRU WATER TANK,,FIRST LETTER ON NO BATTERY SIGN

GEM 8705 JV-P No.004 N-2-20S-33E **30-025-31209-00-00**

Inspection Date	Type Inspection	Inspector	Violation?	*Significant Non-Compliance?	Corrective Action Due By:	Inspection No.
07/19/2007	Routine/Periodic	Buddy Hill	Yes	No	10/22/2007	iLWH0720051100

Violations
Surface Leaks/Spills

Comments on Inspection: CHECK AREA FOR GAS VENTING EXEMPTION,,OK ! DRIP PAN UNDER SWD PUMP FULL AND RUNNING OVER, GEAR OIL AND WATER..FRONT AREA OF BATTERY DYKE HAS HAD SPILL, NOT CLEANED UP..NEEDS PAN EMPTIED, AND CONTAMINATED SOIL REMOVED..FENCE AROUND BATTERY IS IN NEED OF REPAIR, CATTLE HAVE BEEN IN SPILL AREA,,TOOK PICTURES..FIRST NOTICE

BG
XC: RB
JS
SAB SB 7/26/07
7/25/07

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	BTA Oil Producers	Contact	Pam Inskeep
Address	104 S. Pecos, Midland, TX 79701	Telephone No.	(432) 682-3753
Facility Name	Gem, 8705 JV-P Battery	Facility Type	Tank Battery

Surface Owner	Mineral Owner	Lease No.
State	State	V-2199

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	02	20S	33E	660	North	2310	West	Lea

WTR

NATURE OF RELEASE

Type of Release	Minor	Volume of Release 20 bbls	Volume Recovered 20 bbls
Source of Release	Swedge/Tank Leak	Date and Hour of Occurrence 11/19/2006	Date and Hour of Discovery 10:30 am CDT, 11/19/2006
Was Immediate Notice Given? As soon as notified in the office ☒ Yes ☐ No ☐ Not Required		If YES, To Whom Larry Johnson, Hobbs District Office	
By Whom? Pam Inskeep		Date and Hour 2:00 pm CDT, 11/20/2006	
Was a Watercourse Reached? ☐ Yes ☒ No		If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Received Hobbs OCD 2006

Describe Cause of Problem and Remedial Action Taken.*

When making his rounds, the pumper discovered a leak at the battery. The bottom of the 4"x3" swedge on the back of tank #2 corroded and developed a leak and an estimated 20 bbls of stored oil/water mix leaked out onto the soil at the battery on the south side of the tanks. Approximately ½ bbl stayed inside the dike. An estimated ½ bbl affected the pasture land just outside the dike at the leak location. All of the release is unrecoverable.

The swedge was plugged. The tank was emptied. The swedge will be replaced.

Mr. Kenneth Smith, the grazing lessee (GT-2922), was notified and came by the location. He was not greatly concerned with the small amount of product that was released outside the dike.

Clean up will begin the morning of 11/21/2006. We plan to either haul off and dispose of the affected soil at an approved site or use the soil on the battery.

Describe Area Affected and Cleanup Action Taken.*

See above explanation

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Pam Inskeep	OIL CONSERVATION DIVISION
Printed Name: Pam Inskeep	Approved by District Supervisor: ENVIRO ENGR
Title: Regulatory Administrator	Approval Date: 5·25·07 Expiration Date: 7·25·07
Date: 11/19/2006 Phone: (432) 682-3753	Conditions of Approval: SUBMIT FINAL C-141 BY W/ DOCUMENTATION, SAMPLE RESULTS Attached ☐

* Attach Additional Sheets If Necessary

facility - fPAC0714547076
incident - nPAC0714547171
application - pPAC0714547120

RP #1476

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

AUG 2007
Received
Hobbs
OCD

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR ☐ Initial Report ☒ Final Report

Name of Company	BTA Oil Producers	Contact	Pam Inskeep
Address	104 S. Pecos, Midland, TX 79701	Telephone No.	(432) 682-3753
Facility Name	Gem, 8705 JV-P Battery	Facility Type	Tank Battery

Surface Owner State	Mineral Owner State	Lease No. V-2199

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	02	20S	33E	660	North	2310	West	Lea

NATURE OF RELEASE

WTR 100

Type of Release	Minor	Volume of Release 20 bbls	Volume Recovered 20 bbls
Source of Release	Swedge/Tank Leak	Date and Hour of Occurrence 11/19/2006	Date and Hour of Discovery 10:30 am CDT, 11/19/2006
Was Immediate Notice Given? As soon as notified in the office ☒ Yes ☐ No ☐ Not Required		If YES, To Whom Larry Johnson, Hobbs District Office	
By Whom?	Pam Inskeep	Date and Hour 2:00 pm CDT, 11/20/2006	
Was a Watercourse Reached? ☐ Yes ☒ No		If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

When making his rounds, the pumper discovered a leak at the battery. The bottom of the 4"x3" swedge on the back of tank #2 corroded and developed a leak and an estimated 20 bbls of stored oil/water mix leaked out onto the soil at the battery on the south side of the tanks. All but approximately ½ bbl stayed inside the dike. An estimated ½ bbl affected the pasture land just outside the dike at the leak location. All of the release is unrecoverable.

The swedge was plugged. The tank was emptied. The swedge will be replaced.

Mr. Kenneth Smith, the grazing lessee (GT-2922), was notified and came by the location. He was not greatly concerned with the small amount of product that was released outside the dike.

Clean up will begin the morning of 11/21/2006. We plan to either haul off and dispose of the affected soil at an approved site or use the soil on the battery.

Area has been cleaned. Soil has been hauled to an approved site and used at the battery.

Describe Area Affected and Cleanup Action Taken.*

See above explanation

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Joseph A. Baca	OIL CONSERVATION DIVISION
Printed Name: Joseph A. Baca	Approved by ☐ District Supervisor: ENVIRONEER
Title: Environmental Coordinator	Approval Date: 8-6-07 Expiration Date: —
Date: 8/01/2007 Phone: (432) 682-3753	Conditions of Approval: — Attached ☐ —

* Attach Additional Sheets If Necessary

RP #1476