

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-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

RCVD JAN 26 '07
OIL CONS. DIV

Operator: Williams Production Co., LLC Telephone: 505-634-4219 e-mail address: myke.lane@williams.com
Address: POB 640, Aztec, NM 87410
Facility or well name: Jicarilla 93-4 API #: 30-039-21135 U/L or Qtr/Qtr P Sec 34 T 27N R 03W
County: Rio Arriba Latitude N36.52361 Longitude W107.12610 NAD: 1927 ☐ 1983 ☒
Surface Owner: Federal ☐ State ☐ Private ☐ Indian ☒

DIST. 3

Pit Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☐ Liner type: Synthetic ☐ Thickness <u> </u> mil Clay ☐ Pit Volume <u> </u> bbl	Below-grade tank Volume: <u>120</u> bbl Type of fluid: <u>Produced Water</u> Construction material: <u>Fiberglass with Plastic Liner</u> Double-walled, with leak detection? Yes ☒ If not, explain why not. <u> </u>	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet ✓ 100 feet or more	(10 points) ✓ (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points)
	✓ No	✓ (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)
	✓ 200 ft or more, but less than 1000 feet	✓ (10 points)
	1000 feet or more	(0 points)
Ranking Score (Total Points)		10

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility . (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

Area around BGT silting up and maintenance required. Remove fiberglass tank and replace with steel sub-grade tank. Release discovered when replacing tank. Excavated heavily contaminated soils to below closure standards of 1000ppm TPH, 50ppm BTEX, and 10ppm Benzene. See attached reported. See attached site diagram and soil sample results.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 1/26/07

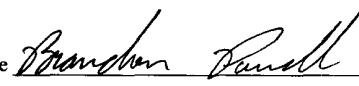
Printed Name/Title Michael K. Lane/EH&S Specialist

Signature 

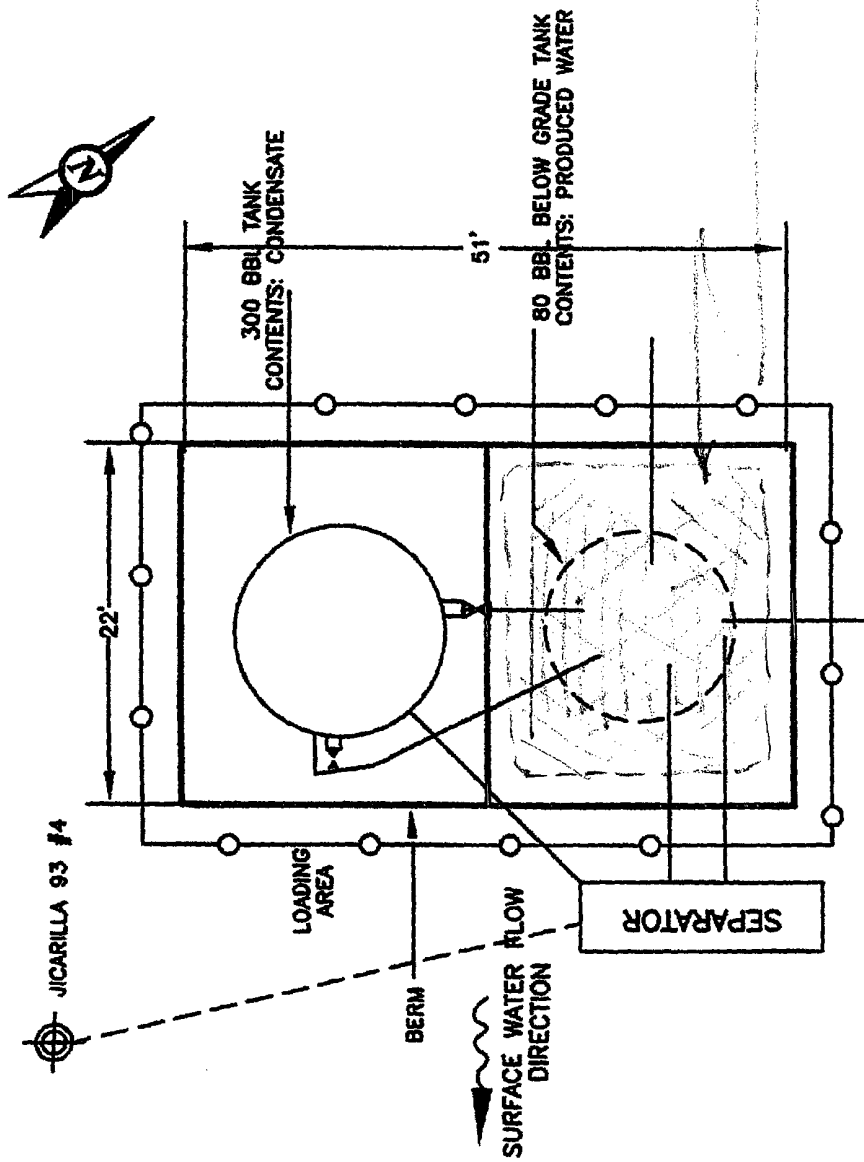
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title SENIOR OIL & GAS INSPECTOR, DIST. 3

Signature 

Date: JAN 26 2007



Former
BGT

REMOVED

12/8-15/06

APPROX.

EXCAVATION.

JICARILLA 93 #4 EXCAVATION

BELOW GRADE TANK REPLACEMENT
AT JICARILLA 93 #4 FOR,
WILLIAMS PRODUCTION
RIO ARriba COUNTY, NEW MEXICO



Prepared For:

MICHAEL K. LANE, PE
WILLIAMS PRODUCTION CO. LLC
721 SOUTH MAIN
AZTEC, NEW MEXICO 87410

Prepared By:



612 EAST MURRAY DRIVE
FARMINGTON, NEW MEXICO 87401

January 2007

**JICARILLA 93 #4 EXCAVATION
BELOW GRADE TANK REPLACEMENT
AT JICARILLA 93 #4 FOR,
WILLIAMS PRODUCTION
RIO ARriba COUNTY, NEW MEXICO**

January 17, 2007

Introduction:

On December 6, 2006, Mr. Michael Lane of Williams Production contacted Cynthia Gray of *iina' ba'* to have soil samples collected at Jicarilla 93 #4 for a below grade tank (BGT) replacement. Instructions were to have field headspace screening performed during excavation of the BGT and below the tank after it's removal. Soil samples were to be collected and analyzed in the *iina' ba'* laboratory for site closure.

Summary of Field Activities:

On December 6, 2006, *iina ba* arrived on site and met with Tommy Clements (Williams Productions) and Sierra Oilfield workers. The facility consists of a wellhead, separator, and a fenced, bermed secondary containment area approximately 51 feet by 22 feet. Located in the secondary containment area is a produced water below grade storage tank (BGT). The Sierra Oilfield crew began excavation around the BGT. Field headspace screening was performed using the MultiRae Photo Ionization Detector (PID) at 2 foot intervals to a depth of 7 feet. The PID was calibrated using 100 parts per million (ppm) isobutylene. All samples were less than 100 ppm. As 10 bbl of produced water was frozen inside BGT, Sierra Oilfield was unsuccessful in removing the tank.

On December 8, 2006, *iina ba* returned to the site, Tommy Clements, the Sierra Oilfield crew and Poor Boys Hot Oil Services from Cuba, NM were in the process of melting the ice in the BGT. A Dawn Trucking water truck arrived on site and vacuumed out the water making it possible for Sierra Oilfield to remove the entire BGT and plastic liner. Field headspace screening was performed at 2 foot intervals from 8 through 12 feet bgs. Field headspace screening yielded a result of 1,341 ppm from the middle of the pit at 12 feet. Michael Lane (Williams Production) was informed by telephone of the results. He requested that excavation cease and soil samples be collected. *iina ba* collected a 5 point composite sample at 12' bgs. The soils were gray, moist sand and had a strong hydrocarbon odor. The composite samples were placed in laboratory-supplied jars, placed on ice and transported to *iina ba's* laboratory in Farmington, NM, following proper preservation and Chain of Custody protocol.

The laboratory used USEPA Methods SW8015B for Diesel Range and Gasoline Range Organics (DRO/GRO) and SW8021B for Aromatic Volatiles (BTEX), to analyze the soil sample for residual hydrocarbon contamination. The following table and the enclosed laboratory analytical report summarize the results.

Date	Jicarilla 93 #4	DRO mg/Kg	GRO mg/Kg	Benzene µg/Kg	Toluene µg/Kg	Ethyl Benzene µg/Kg	Total Xylenes µg/Kg
12/8/2007	South wall @ 12'	952	16.2	ND	ND	ND	73.5
12/8/2007	West wall @ 12'	5,350	14.1	ND	ND	ND	ND
12/8/2007	North wall @ 12'	1,580	18.7	ND	ND	ND	62.7
12/8/2007	East wall @ 12'	2,580	4.52	ND	ND	ND	ND
12/8/2007	Center of pit @ 12'	12,100	3,920	52.4	17,800	6,200	165,800
12/15/2007	South wall @ 23'	ND	ND	ND	ND	ND	ND
12/15/2007	West wall @ 23'	ND	ND	ND	ND	ND	ND
12/15/2007	North wall @ 23'	ND	6.25	ND	ND	ND	ND
12/15/2007	East wall @ 23'	ND	ND	ND	ND	ND	ND
12/15/2007	Center of pit @ 23'	457	76.1	ND	34.8	117	1,112

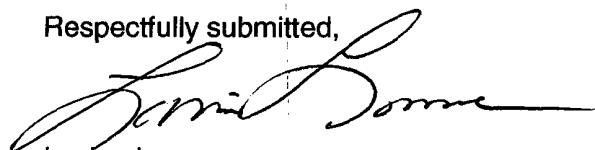
Based on laboratory analytical results, on December 15, 2006, Sierra Oilfield excavated the affected area to a depth of approximately 23 feet bgs, removing 70 cubic yards of soil. The contaminated soils were transported to Tony Smith's Ranch Contaminated Soils in Jicarilla. A tailgate safety meeting was held before work commenced. Field screening was accomplished using the calibrated MultiRae Photo Ionization Detector (PID). Field screening of the sample revealed results at 138 ppm at 23 feet. Michael Lane was informed by telephone; he requested that laboratory samples be collected. *iina ba* collected a 5 point composite sample from all four walls and the bottom of the excavation. The composite sample was placed in a laboratory-supplied jar and placed on ice for transport to *iina ba's* Farmington laboratory. The sample was analyzed by the same methods as the December 8, 2006 sample. Results are summarized in the table above and in the enclosed laboratory report.

Closure and Limits:

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

This document has been prepared by *iina ba* for the exclusive use of Williams Production, as it pertains to the referenced location. If there are any questions regarding this report, please contact either Cynthia Gray or Lavina Lamone at (505) 327-1072.

Respectfully submitted,



Lavina Lamone
Environmental Field Technician

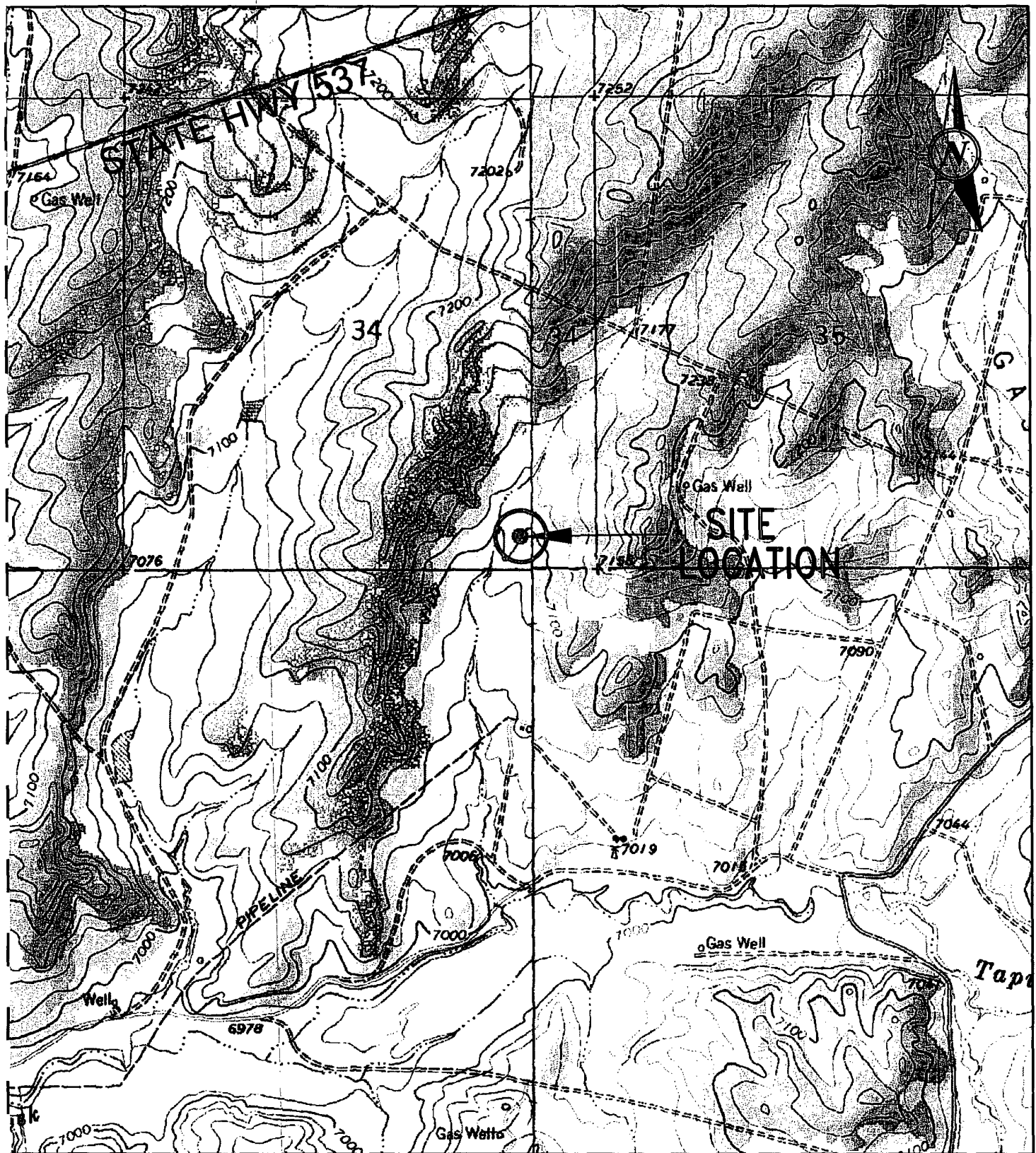
Reviewed by,

 FOR:

Cynthia A. Sluyter-Gray, CHMM
Senior Scientist

Enclosures: Site Map
Site Photos
Laboratory Analytical Reports

Site Map



SITE LOCATION: NE $\frac{1}{4}$ NE $\frac{1}{4}$ SECTION 34 T 27N R3W
 MAP SOURCE: DULCE/JICARILLA USGS QUADRANGLE

SCALE

0' 1000' 2000' 4000'

iiná bá

P.O. Box 3788
 SHIPROCK, NM 87420

PH. (505) 388-4065
 FAX (505) 327-1496

APPROVED: RSA

DRAWN BY: TLONG

REVISIONS BY: LL

PROJECT # 5916096

DATE: 01/17/07

DATE: 01/17/07

DATE: 01/19/07

FIGURE 1

VICINITY MAP

JICARILLA 93 #4

JICARILLA, NEW MEXICO

Site Photos

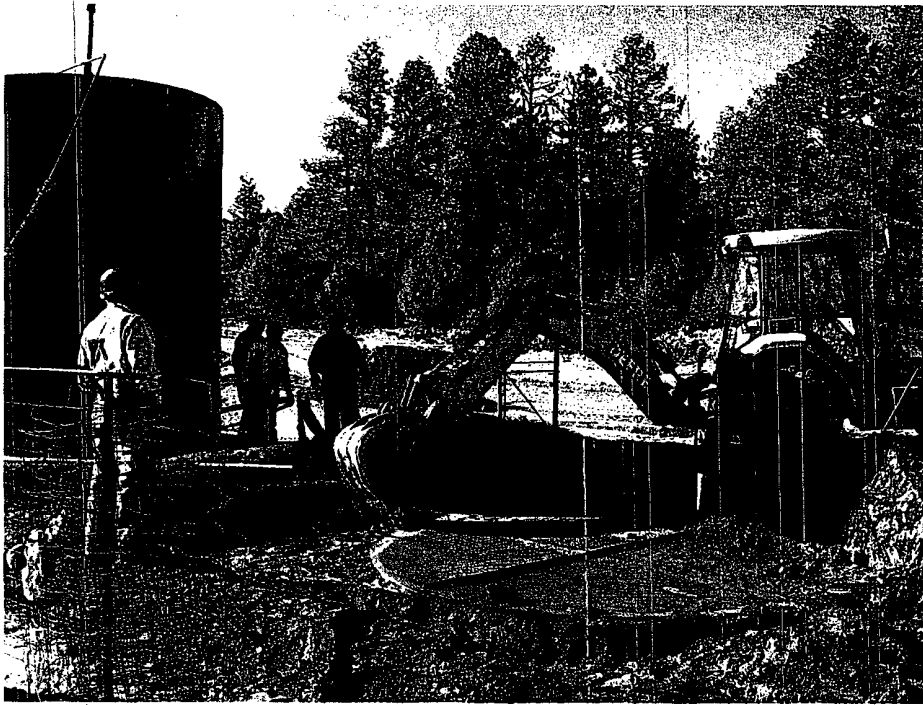


Photo 1: Sierra Oilfield, starting excavation

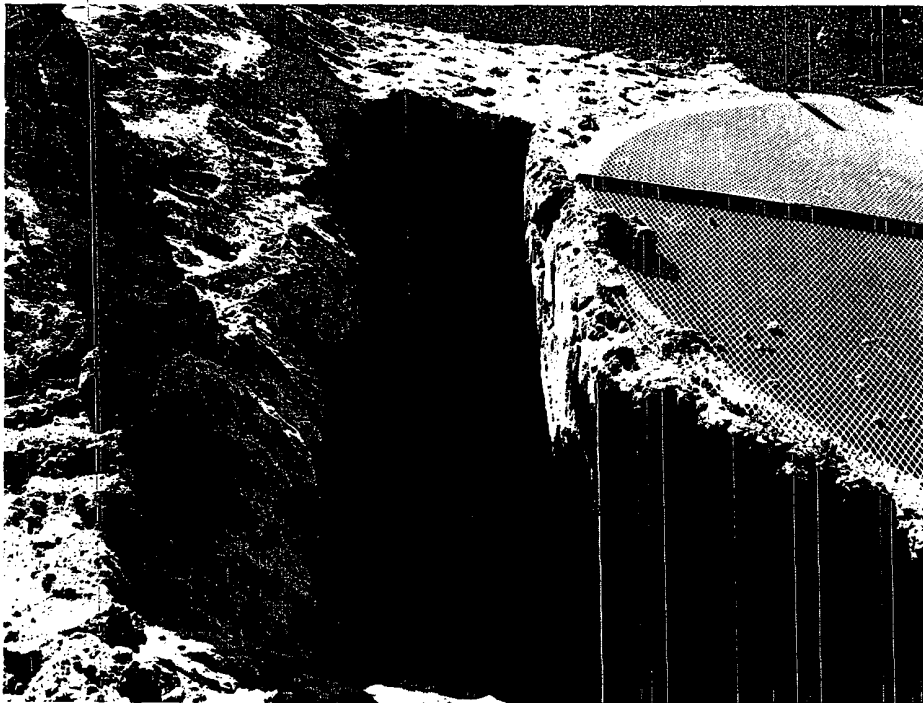


Photo 2: Excavation around south side of BGT



Photo 3: Poor Boys Hot Oil melting ice in BGT

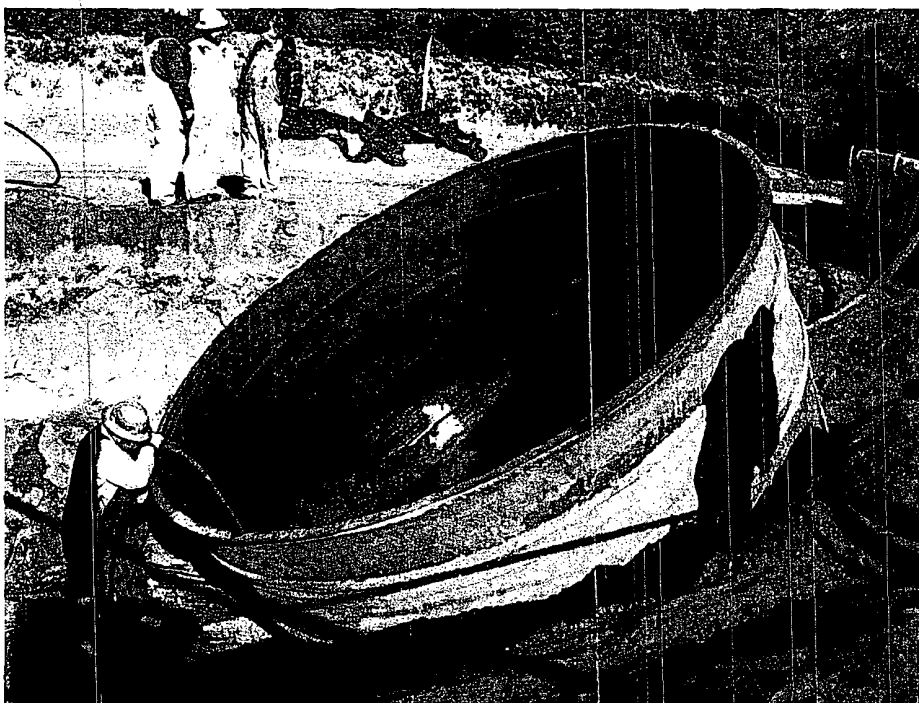


Photo 4: 10 bbl produced water extracted from BGT



Photo 5: Crew hot washing BGT

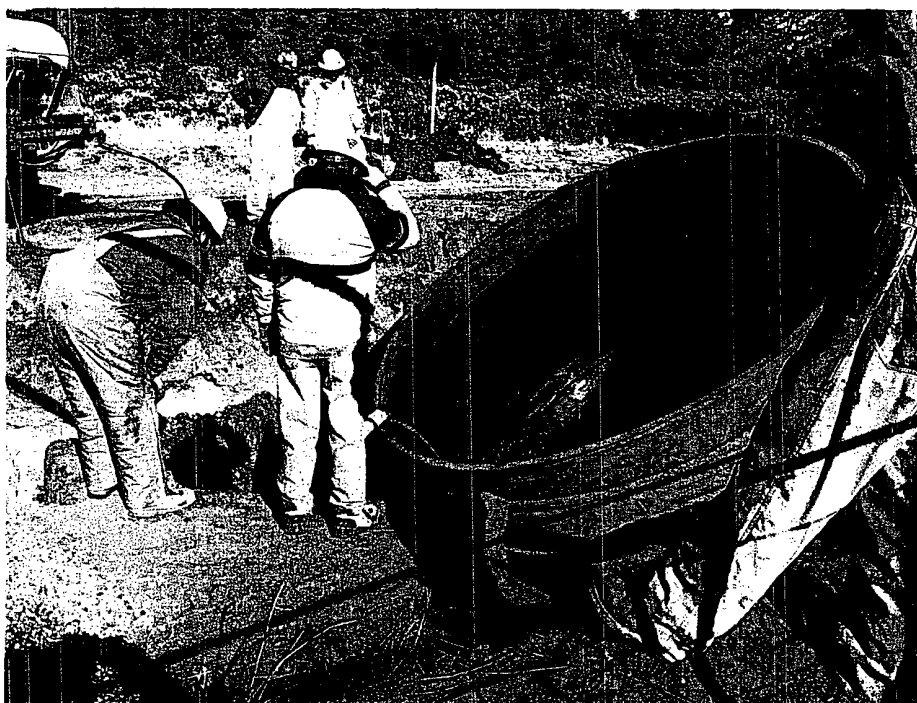


Photo 6: Dawn Trucking removing water from BGT



Photo 7: 7' x 15' 120 bbl BGT



Photo 8: Excavation and contaminated soil on dump truck.

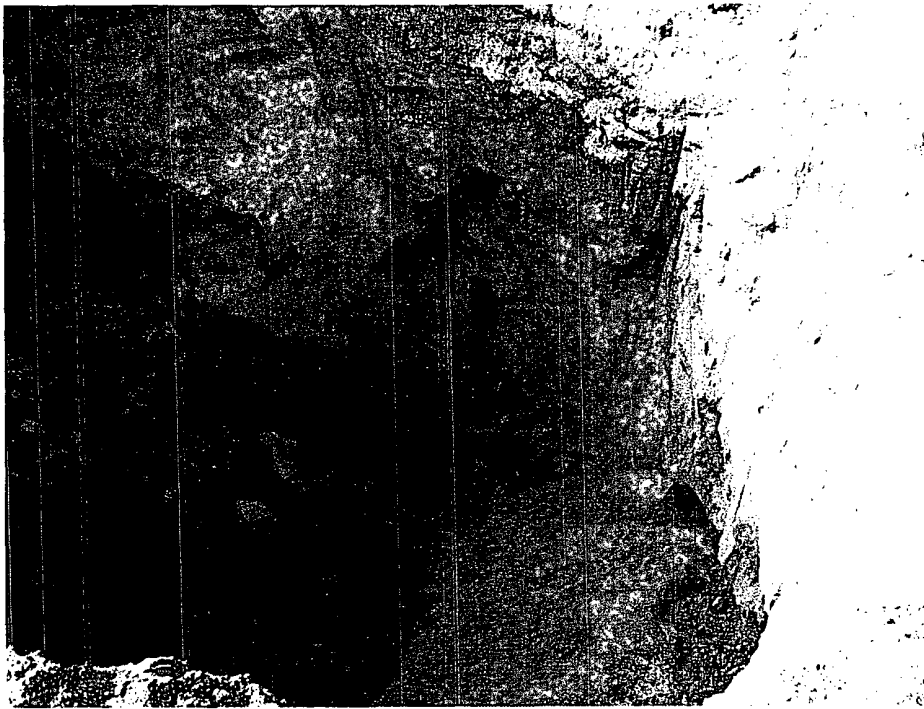


Photo 9: 23' pit at Jicarilla 93 #4



Photo 10: Jicarilla 93 #4

Laboratory Reports

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072
Fax: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

January 04, 2007

Lavina Lamone
iina' ba' Inc.
612 E. Murray Dr.
Farmington, NM 87401

TEL: 505-327-1072
FAX: 505-327-1496

RE: Jicarilla 93 #4

Order No.: 0612035

Dear Lavina Lamone:

iiná bá received 5 samples on 12/16/2006 8:20:00 AM for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By: 
Jeffrey L. Engels, Laboratory Manager
Edwina F. Aspaas, Quality Assurance Officer

ORELAP Laboratory No. 100002
Arizona License No. AZ0691

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at (505) 327-1072.



MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

iiná bá

Date: 04-Jan-07

CLIENT: iina' ba' Inc.
Project: Jicarilla 93 #4
Lab Order: 0612035

CASE NARRATIVE

Samples were analyzed using the methods outlined in one or more of the following references:
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.
Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.
Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.
Methods for the Determination of Metals in Environmental Samples, Supplement I, EPA-600/R-94/111,
May 1994.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

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Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 04-Jan-07

CLIENT: iina' ba' Inc.
Work Order: 0612035
Project: Jicarilla 93 #4
Lab ID: 0612035-001A

Client Sample Info: Jicarilla 93 #4
Client Sample ID: E. Wall @ 23 ft
Collection Date: 12/15/2006 2:30:00 PM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B		(SW8015B)		Analyst: jem
T/R Hydrocarbons: C10-C28	ND	25.0		mg/Kg	1	12/27/2006
Surr: o-Terphenyl	84.6	35-128		%REC	1	12/27/2006
GASOLINE RANGE ORGANICS						
		SW8015B				Analyst: jem
T/R Hydrocarbons: C6-C10	ND	2.50		mg/Kg	25	12/21/2006
Surr: Trifluorotoluene	58.1	55-122		%REC	25	12/21/2006
AROMATIC VOLATILES BY GC/PID						
		SW8021B		(SW5035A)		Analyst: jem
Benzene	ND	25.0		µg/Kg	25	12/28/2006
Toluene	ND	25.0		µg/Kg	25	12/28/2006
Ethylbenzene	ND	25.0		µg/Kg	25	12/28/2006
m,p-Xylene	ND	50.0		µg/Kg	25	12/28/2006
o-Xylene	ND	25.0		µg/Kg	25	12/28/2006
Surr: Fluorobenzene	96.2	70-120		%REC	25	12/28/2006
Surr: 1,4-Difluorobenzene	97.5	75-120		%REC	25	12/28/2006
Surr: 4-Bromochlorobenzene	129	50-140		%REC	25	12/28/2006

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

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ANALYTICAL REPORT

Date: 04-Jan-07

CLIENT: iina' ba' Inc.
Work Order: 0612035
Project: Jicarilla 93 #4
Lab ID: 0612035-002A

Client Sample Info: Jicarilla 93 #4
Client Sample ID: Center of Pit @ 23 ft
Collection Date: 12/15/2006 2:30:00 PM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B		(SW8015B)		Analyst: jem
T/R Hydrocarbons: C10-C28	457	25.0		mg/Kg	1	12/27/2006
Surr: o-Terphenyl	97.0	35-128		%REC	1	12/27/2006
GASOLINE RANGE ORGANICS		SW8015B				Analyst: jem
T/R Hydrocarbons: C6-C10	76.1	2.50		mg/Kg	25	12/21/2006
Surr: Trifluorotoluene	58.7	55-122		%REC	25	12/21/2006
AROMATIC VOLATILES BY GC/PID		SW8021B		(SW5035A)		Analyst: jem
Benzene	ND	25.0		µg/Kg	25	12/28/2006
Toluene	34.8	25.0		µg/Kg	25	12/28/2006
Ethylbenzene	117	25.0		µg/Kg	25	12/28/2006
m,p-Xylene	865	50.0		µg/Kg	25	12/28/2006
o-Xylene	247	25.0		µg/Kg	25	12/28/2006
Surr: Fluorobenzene	95.3	70-120		%REC	25	12/28/2006
Surr: 1,4-Difluorobenzene	96.5	75-120		%REC	25	12/28/2006
Surr: 4-Bromochlorobenzene	139	50-140		%REC	25	12/28/2006

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
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ANALYTICAL REPORT

Date: 04-Jan-07

CLIENT: iina' ba' Inc.
Work Order: 0612035
Project: Jicarilla 93 #4
Lab ID: 0612035-003A

Client Sample Info: Jicarilla 93 #4
Client Sample ID: N. Wall @ 23 ft
Collection Date: 12/15/2006 2:30:00 PM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B		(SW8015B)		Analyst: jem
T/R Hydrocarbons: C10-C28	ND	25.0		mg/Kg	1	12/27/2006
Surr: o-Terphenyl	80.8	35-128		%REC	1	12/27/2006
GASOLINE RANGE ORGANICS						
		SW8015B				Analyst: jem
T/R Hydrocarbons: C6-C10	6.25	2.50		mg/Kg	25	12/21/2006
Surr: Trifluorotoluene	58.2	55-122		%REC	25	12/21/2006
AROMATIC VOLATILES BY GC/PID						
		SW8021B		(SW5035A)		Analyst: jem
Benzene	ND	25.0		µg/Kg	25	12/28/2006
Toluene	ND	25.0		µg/Kg	25	12/28/2006
Ethylbenzene	ND	25.0		µg/Kg	25	12/28/2006
m,p-Xylene	ND	50.0		µg/Kg	25	12/28/2006
o-Xylene	ND	25.0		µg/Kg	25	12/28/2006
Surr: Fluorobenzene	97.1	70-120		%REC	25	12/28/2006
Surr: 1,4-Difluorobenzene	97.7	75-120		%REC	25	12/28/2006
Surr: 4-Bromochlorobenzene	122	50-140		%REC	25	12/28/2006

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
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* - Value exceeds Maximum Contaminant Level
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ANALYTICAL REPORT

Date: 04-Jan-07

CLIENT: iina' ba' Inc.
Work Order: 0612035
Project: Jicarilla 93 #4
Lab ID: 0612035-004A

Client Sample Info: Jicarilla 93 #4
Client Sample ID: W. Wall @ 23 ft
Collection Date: 12/15/2006 2:30:00 PM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B		(SW8015B)		Analyst: jem
T/R Hydrocarbons: C10-C28	ND	25.0		mg/Kg	1	12/27/2006
Surr: o-Terphenyl	80.3	35-128		%REC	1	12/27/2006
GASOLINE RANGE ORGANICS		SW8015B				Analyst: jem
T/R Hydrocarbons: C6-C10	ND	2.50		mg/Kg	25	12/21/2006
Surr: Trifluorotoluene	58.1	55-122		%REC	25	12/21/2006
AROMATIC VOLATILES BY GC/PID		SW8021B		(SW5035A)		Analyst: jem
Benzene	ND	25.0		µg/Kg	25	12/28/2006
Toluene	ND	25.0		µg/Kg	25	12/28/2006
Ethylbenzene	ND	25.0		µg/Kg	25	12/28/2006
m,p-Xylene	ND	50.0		µg/Kg	25	12/28/2006
o-Xylene	ND	25.0		µg/Kg	25	12/28/2006
Surr: Fluorobenzene	96.8	70-120		%REC	25	12/28/2006
Surr: 1,4-Difluorobenzene	96.9	75-120		%REC	25	12/28/2006
Surr: 4-Bromochlorobenzene	131	50-140		%REC	25	12/28/2006

Qualifiers: ND - Not Detected at the Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit R - RPD outside accepted precision limits
B - Analyte detected in the associated Method Blank E - Value above Upper Quantitation Limit - UQL
* - Value exceeds Maximum Contaminant Level

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ANALYTICAL REPORT

Date: 04-Jan-07

CLIENT: iina' ba' Inc.
Work Order: 0612035
Project: Jicarilla 93 #4
Lab ID: 0612035-005A

Client Sample Info: Jicarilla 93 #4
Client Sample ID: S. Wall @ 23 ft
Collection Date: 12/15/2006 2:30:00 PM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B		(SW8015B)		Analyst: jem
T/R Hydrocarbons: C10-C28	ND	25.0		mg/Kg	1	12/27/2006
Surr: o-Terphenyl	103	35-128		%REC	1	12/27/2006
GASOLINE RANGE ORGANICS						
		SW8015B				Analyst: jem
T/R Hydrocarbons: C6-C10	ND	2.50		mg/Kg	25	12/21/2006
Surr: Trifluorotoluene	58.6	55-122		%REC	25	12/21/2006
AROMATIC VOLATILES BY GC/PID						
		SW8021B		(SW5035A)		Analyst: jem
Benzene	ND	25.0		µg/Kg	25	12/28/2006
Toluene	ND	25.0		µg/Kg	25	12/28/2006
Ethylbenzene	ND	25.0		µg/Kg	25	12/28/2006
m,p-Xylene	ND	50.0		µg/Kg	25	12/28/2006
o-Xylene	ND	25.0		µg/Kg	25	12/28/2006

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

Page 5 of 5

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

iina bá

Date: 04-Jan-07

CLIENT: iina' ba' Inc.
Work Order: 0612035
Project: Jicarilla 93 #4

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DR2_S

Sample ID: MBLK_1524	SampType: MBLK	TestCode: 8015DR2_S	Units: mg/Kg	Prep Date: 12/27/2006	Run ID: GC-2_061227A
Client ID: ZZZZZ	Batch ID: 1524	TestNo: SW8015B	(SW8015B)	Analysis Date: 12/27/2006	SeqNo: 123152
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C10-C28	ND	25.0			
Surr: o-Terphenyl	25.24	0	38	0	66.4 35 128 0 0

Sample ID: LCS_1524	SampType: LCS	TestCode: 8015DR2_S	Units: mg/Kg	Prep Date: 12/27/2006	Run ID: GC-2_061227A
Client ID: ZZZZZ	Batch ID: 1524	TestNo: SW8015B	(SW8015B)	Analysis Date: 12/27/2006	SeqNo: 123154
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C10-C28	448.3	25.0	502	0	89.3 80 120 0 0
Surr: o-Terphenyl	28.5	0	38	0	75 35 128 0 0

Sample ID: 0612035-005AMS	SampType: MS	TestCode: 8015DR2_S	Units: mg/Kg	Prep Date: 12/27/2006	Run ID: GC-2_061227A
Client ID: S. Wall @ 23 ft	Batch ID: 1524	TestNo: SW8015B	(SW8015B)	Analysis Date: 12/27/2006	SeqNo: 123161
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C10-C28	473.8	25.0	502	17.25	90.9 70 130 0 0
Surr: o-Terphenyl	35.86	0	38	0	94.4 35 128 0 0

Sample ID: 0612035-004AD	SampType: DUP	TestCode: 8015DR2_S	Units: mg/Kg	Prep Date: 12/27/2006	Run ID: GC-2_061227A
Client ID: W. Wall @ 23 ft	Batch ID: 1524	TestNo: SW8015B	(SW8015B)	Analysis Date: 12/27/2006	SeqNo: 123160
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C10-C28	ND	25.0	0	0	0 0 8.496 0 12
Surr: o-Terphenyl	31.35	0	38	0	82.5 35 128 0 0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

CLIENT: iina' ba' Inc.
 Work Order: 0612035
 Project: Jicarilla 93 #4

TestCode: 8015GRO_S

Sample ID: MB_1516	SampType: MBLK	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 12/18/2006	Run ID: GC-1B_061221A
Client ID: ZZZZZ	Batch ID: R8791	TestNo: SW8015B		Analysis Date: 12/21/2006	SeqNo: 122889
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C6-C10	2.348	2.50			
Surr: Trifluorotoluene	1.51	0	2.5	0	60.4 55 122 0 0 0

J

Sample ID: LCS_061221	SampType: LCS	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date:	Run ID: GC-1B_061221A
Client ID: ZZZZZ	Batch ID: R8791	TestNo: SW8015B		Analysis Date: 12/21/2006	SeqNo: 122891
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C6-C10	24.6	2.50	25	2.348	89 120 0 0
Surr: Trifluorotoluene	1.692	0	2.5	0	67.7 55 122 0 0

Sample ID: 0612021-001BMS	SampType: MS	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date:	Run ID: GC-1B_061221A
Client ID: ZZZZZ	Batch ID: R8791	TestNo: SW8015B		Analysis Date: 12/21/2006	SeqNo: 122893
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C6-C10	19.94	1.93	19.27	1.283	96.8 70 130 0 0
Surr: Trifluorotoluene	1.3	0	1.927	0	67.4 55 122 0 0

Sample ID: 0612021-001BMSD	SampType: MSD	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date:	Run ID: GC-1B_061221A
Client ID: ZZZZZ	Batch ID: R8791	TestNo: SW8015B		Analysis Date: 12/21/2006	SeqNo: 122894
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C6-C10	19.87	1.93	19.27	1.283	96.5 70 130 19.94 0 15
Surr: Trifluorotoluene	1.291	0	1.927	0	67 55 122 0 0

Sample ID: 0612035-002AMS	SampType: MSD	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date:	Run ID: GC-1B_061221A
Client ID: Center of Pit @ 23 ft	Batch ID: R8791	TestNo: SW8015B		Analysis Date: 12/21/2006	SeqNo: 122909
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C6-C10	94.84	2.50	25	70.29	98.2 70 130 0 0
Surr: Trifluorotoluene	1.621	0	2.5	0	64.8 55 122 0 0

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: iina' ba' Inc.
Work Order: 0612035
Project: Jicarilla 93 #4

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_S

Sample ID: 0612035-002AMSD		SampType: MSD	TestCode: 8015GRO_S		Units: mg/Kg	Prep Date:		Run ID: GC-1B_061221A				
Client ID: Center of Pit @ 23 ft		Batch ID: R8791	TestNo: SW8015B			Analysis Date: 12/21/2006				SeqNo: 122910		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10		89.76	2.50	25	70.29	77.9	70	130	94.84	5.50	15	
Surr: Trifluorotoluene		1.623	0	2.5	0	64.9	55	122	0	0	0	

Sample ID: 0612034-001AD		SampType: DUP		TestCode: 8015GRO_S		Units: mg/Kg		Prep Date:		Run ID: GC-1B_061221A			
Client ID: ZZZZZ		Batch ID: R8791		TestNo: SW8015B		Analysis Date: 12/21/2006						SeqNo: 122914	
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10		3.219		2.50	0	0	0	0	0	3.884	18.7	15	R
Surr: Trifluorotoluene		1.462		0	2.5	0	58.5	55	122	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: iina'ba' Inc.
 Work Order: 0612035
 Project: Jicarilla 93 #4

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID: MBLK_1516	Sample Type: MBLK	TestCode: BTEX_S	Units: µg/Kg	Prep Date: 10/18/2006	Run ID: GC-1_061228A						
Client ID: ZZZZZ	Batch ID: 1516	TestNo: SW8021B	(SW5035A)	Analysis Date: 12/28/2006	SeqNo: 123165						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene ND 25.0
 Ethylbenzene ND 25.0
 m,p-Xylene ND 50.0
 o-Xylene ND 25.0
 Toluene 8.25 25.0

J

Sample ID: LCS_061228A	Sample Type: LCS	TestCode: BTEX_S	Units: µg/Kg	Prep Date: 10/18/2006	Run ID: GC-1_061228A						
Client ID: ZZZZZ	Batch ID: 1516	TestNo: SW8021B	(SW5035A)	Analysis Date: 12/28/2006	SeqNo: 123164						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene 976 25.0 1000 0 97.6 70 130 0 0
 Ethylbenzene 996.4 25.0 1000 0 99.6 70 130 0 0
 m,p-Xylene 1972 50.0 2000 0 98.6 70 130 0 0
 o-Xylene 1008 25.0 1000 0 101 70 130 0 0
 Toluene 1011 25.0 1000 8.25 100 70 130 0 0
 Surr: 1,4-Difluorobenzene 1007 0 1000 0 101 75 120 0 0
 Surr: 4-Bromochlorobenzene 1125 0 1000 0 113 50 140 0 0
 Surr: Fluorobenzene 1010 0 1000 0 101 70 120 0 0

Sample ID: 0612034-001AMS	SampType: MS	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	Run ID: GC-1_061228A						
Client ID: ZZZZZ	Batch ID: 1516	TestNo: SW8021B	(SW5035A)	Analysis Date: 12/28/2006	SeqNo: 123182						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene 991.2 25.0 1000 0 99.1 70 130 0 0
 Ethylbenzene 1006 25.0 1000 8.08 99.8 70 130 0 0
 m,p-Xylene 1991 50.0 2000 25.44 98.3 70 130 0 0
 o-Xylene 1015 25.0 1000 0 101 70 130 0 0
 Toluene 995.6 25.0 1000 10.67 98.5 70 130 0 0
 Surr: 1,4-Difluorobenzene 3402 0 3500 0 97.2 75 120 0 0
 Surr: 4-Bromochlorobenzene 3666 0 3500 0 110 50 140 0 0
 Surr: Fluorobenzene 3406 0 3500 0 97.3 70 120 0 0

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT:

Work Order:

Project:

ina' ba' Inc.

0612035

Jicarilla 93 #4

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID: 0612034-001AMSD		SampType: MSD		TestCode: BTEX_S		Units: µg/Kg		Prep Date:		Run ID: GC-1_061228A	
Client ID: ZZZZZ		Batch ID: 1516		TestNo: SW8021B		(SW5035A)		Analysis Date: 12/28/2006		SeqNo: 123183	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	976	25.0	1000	0	97.6	70	130	991.2	1.55	15	
Ethylbenzene	990.4	25.0	1000	8.08	98.2	70	130	1006	1.60	15	
m,p-Xylene	1957	50.0	2000	25.44	96.6	70	130	1991	1.74	15	
o-Xylene	1002	25.0	1000	0	100	70	130	1015	1.27	15	
Toluene	985.4	25.0	1000	10.67	97.5	70	130	995.6	1.03	15	
Surr: 1,4-Difluorobenzene	3403	0	3500	0	97.2	75	120	0	0	0	
Surr: 4-Bromochlorobenzene	4031	0	3500	0	115	50	140	0	0	0	
Surr: Fluorobenzene	3388	0	3500	0	96.8	70	120	0	0	0	



5458

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Date 12/15/06

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of

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iina' bá

P.O. Box 3788
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Off: (505) 368-4065

December 22, 2006

Lavina Lamone
iina' ba' Inc.
612 E. Murray Dr.
Farmington, NM 87401

TEL: 505-327-1072
FAX: 505-327-1496

RE: Jicarilla 93 #4

Order No.: 0612015

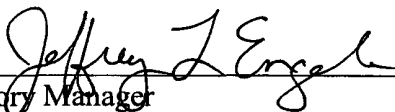
Dear Lavina Lamone:

iina' bá received 5 samples on 12/8/2006 3:55:00 PM for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By:


Jeffrey L. Engels, Laboratory Manager
Edwina F. Aspaas, Quality Assurance Officer

ORELAP Laboratory No. 100002
Arizona License No. AZ0691

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at (505) 327-1072.



MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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iina' bá

Date: 22-Dec-06

CLIENT: iina' ba' Inc.
Project: Jicarilla 93 #4
Lab Order: 0612015

CASE NARRATIVE

Samples were analyzed using the methods outlined in one or more of the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

Methods for the Determination of Metals in Environmental Samples, Supplement I, EPA-600/R-94/111,
May 1994.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist.

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Off: (505) 368-4065

ANALYTICAL REPORT

Date: 22-Dec-06

CLIENT: iina' ba' Inc.
Work Order: 0612015
Project: Jicarilla 93 #4
Lab ID: 0612015-002A

Client Sample Info: Jicarilla 93 #4
Client Sample ID: S. End @ 12 ft
Collection Date: 12/8/2006 1:11:00 PM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B		(SW8015B)		Analyst: jem
T/R Hydrocarbons: C10-C28	952	25.0		mg/Kg	1	12/14/2006
Surr: o-Terphenyl	73.9	35-128		%REC	1	12/14/2006
GASOLINE RANGE ORGANICS						
		SW8015B		(SW5035A)		Analyst: jem
T/R Hydrocarbons: C6-C10	16.2	2.50		mg/Kg	25	12/11/2006
Surr: Trifluorotoluene	57.2	57-122		%REC	25	12/11/2006
AROMATIC VOLATILES BY GC/PID						
		SW8021B		(SW5035A)		Analyst: jem
Benzene	ND	20.0		µg/Kg	10	12/14/2006
Ethylbenzene	ND	20.0		µg/Kg	10	12/14/2006
m,p-Xylene	73.5	40.0		µg/Kg	10	12/14/2006
o-Xylene	ND	20.0		µg/Kg	10	12/14/2006
Toluene	ND	20.0		µg/Kg	10	12/14/2006
Surr: 1,4-Difluorobenzene	109	75-120		%REC	10	12/14/2006
Surr: 4-Bromochlorobenzene	143	50-140	S	%REC	10	12/14/2006
Surr: Fluorobenzene	96.3	70-120		%REC	10	12/14/2006

Qualifiers: ND - Not Detected at the Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit R - RPD outside accepted precision limits
B - Analyte detected in the associated Method Blank E - Value above Upper Quantitation Limit - UQL
* - Value exceeds Maximum Contaminant Level

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MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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ANALYTICAL REPORT

Date: 22-Dec-06

CLIENT: iina' ba' Inc.
Work Order: 0612015
Project: Jicarilla 93 #4
Lab ID: 0612015-001A

Client Sample Info: Jicarilla 93 #4
Client Sample ID: Center Pit @ 12 ft
Collection Date: 12/8/2006 12:48:00 PM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B		(SW8015B)		Analyst: jem
T/R Hydrocarbons: C10-C28	12100	500		mg/Kg	20	12/14/2006
Surr: o-Terphenyl	132	35-128	S	%REC	20	12/14/2006
GASOLINE RANGE ORGANICS						
		SW8015B		(SW5035A)		Analyst: jem
T/R Hydrocarbons: C6-C10	3920	1000		mg/Kg	10000	12/11/2006
Surr: Trifluorotoluene	57.9	57-122		%REC	10000	12/11/2006
AROMATIC VOLATILES BY GC/PID						
		SW8021B		(SW5035A)		Analyst: jem
Benzene	52.4	50.0		µg/Kg	25	12/14/2006
Ethylbenzene	6200	200		µg/Kg	100	12/14/2006
m,p-Xylene	149000	40000		µg/Kg	10000	12/14/2006
o-Xylene	16800	200		µg/Kg	100	12/14/2006
Toluene	17800	200		µg/Kg	100	12/14/2006
Surr: 1,4-Difluorobenzene	96.4	75-120		%REC	100	12/14/2006
Surr: 1,4-Difluorobenzene	110	75-120		%REC	10000	12/14/2006
Surr: 1,4-Difluorobenzene	132	75-120	S	%REC	25	12/14/2006
Surr: 4-Bromochlorobenzene	154	50-140	S	%REC	10000	12/14/2006
Surr: 4-Bromochlorobenzene	145	50-140	S	%REC	100	12/14/2006
Surr: 4-Bromochlorobenzene	250	50-140	S	%REC	25	12/14/2006
Surr: Fluorobenzene	121	70-120	S	%REC	25	12/14/2006
Surr: Fluorobenzene	86.0	70-120		%REC	100	12/14/2006
Surr: Fluorobenzene	96.4	70-120		%REC	10000	12/14/2006

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
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* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
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MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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ANALYTICAL REPORT

Date: 22-Dec-06

CLIENT: iina' ba' Inc.
Work Order: 0612015
Project: Jicarilla 93 #4
Lab ID: 0612015-003A

Client Sample Info: Jicarilla 93 #4
Client Sample ID: W. End @ 12 ft
Collection Date: 12/8/2006 1:12:00 PM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B		(SW8015B)		Analyst: jem
T/R Hydrocarbons: C10-C28	5350	125		mg/Kg	5	12/14/2006
Surr: o-Terphenyl	173	35-128	S	%REC	5	12/14/2006
GASOLINE RANGE ORGANICS		SW8015B		(SW5035A)		Analyst: jem
T/R Hydrocarbons: C6-C10	14.1	2.50		mg/Kg	25	12/11/2006
Surr: Trifluorotoluene	57.0	57-122		%REC	25	12/11/2006
AROMATIC VOLATILES BY GC/PID		SW8021B		(SW5035A)		Analyst: jem
Benzene	ND	20.0		µg/Kg	10	12/14/2006
Ethylbenzene	ND	20.0		µg/Kg	10	12/14/2006
m,p-Xylene	ND	40.0		µg/Kg	10	12/14/2006
o-Xylene	ND	20.0		µg/Kg	10	12/14/2006
Toluene	ND	20.0		µg/Kg	10	12/14/2006
Surr: 1,4-Difluorobenzene	108	75-120		%REC	10	12/14/2006
Surr: 4-Bromochlorobenzene	148	50-140	S	%REC	10	12/14/2006
Surr: Fluorobenzene	96.0	70-120		%REC	10	12/14/2006

Qualifiers: ND - Not Detected at the Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit R - RPD outside accepted precision limits
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MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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ANALYTICAL REPORT

Date: 22-Dec-06

CLIENT: iina' ba' Inc.
Work Order: 0612015
Project: Jicarilla 93 #4
Lab ID: 0612015-004A

Client Sample Info: Jicarilla 93 #4
Client Sample ID: N End @ 12 ft
Collection Date: 12/8/2006 1:13:00 PM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B		(SW8015B)		Analyst: jem
T/R Hydrocarbons: C10-C28	1580	25.0		mg/Kg	1	12/14/2006
Surr: o-Terphenyl	97.9	35-128		%REC	1	12/14/2006
GASOLINE RANGE ORGANICS						
		SW8015B		(SW5035A)		Analyst: jem
T/R Hydrocarbons: C6-C10	18.7	2.50		mg/Kg	25	12/11/2006
Surr: Trifluorotoluene	57.3	57-122		%REC	25	12/11/2006
AROMATIC VOLATILES BY GC/PID						
		SW8021B		(SW5035A)		Analyst: jem
Benzene	ND	20.0		µg/Kg	10	12/14/2006
Ethylbenzene	ND	20.0		µg/Kg	10	12/14/2006
m,p-Xylene	62.7	40.0		µg/Kg	10	12/14/2006
o-Xylene	ND	20.0		µg/Kg	10	12/14/2006
Toluene	ND	20.0		µg/Kg	10	12/14/2006
Surr: 1,4-Difluorobenzene	109	75-120		%REC	10	12/14/2006
Surr: 4-Bromochlorobenzene	122	50-140		%REC	10	12/14/2006
Surr: Fluorobenzene	97.2	70-120		%REC	10	12/14/2006

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

Page 4 of 5

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iina' bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 22-Dec-06

CLIENT: iina' ba' Inc.
Work Order: 0612015
Project: Jicarilla 93 #4
Lab ID: 0612015-005A

Client Sample Info: Jicarilla 93 #4
Client Sample ID: E End @ 12 ft
Collection Date: 12/8/2006 1:14:00 PM
Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B		(SW8015B)		Analyst: jem
T/R Hydrocarbons: C10-C28	2580	125		mg/Kg	5	12/14/2006
Surr: o-Terphenyl	178	35-128	S	%REC	5	12/14/2006
GASOLINE RANGE ORGANICS						
		SW8015B		(SW5035A)		Analyst: jem
T/R Hydrocarbons: C6-C10	4.52	2.50		mg/Kg	25	12/11/2006
Surr: Trifluorotoluene	57.3	57-122		%REC	25	12/11/2006
AROMATIC VOLATILES BY GC/PID						
		SW8021B		(SW5035A)		Analyst: jem
Benzene	ND	20.0		µg/Kg	10	12/14/2006
Ethylbenzene	ND	20.0		µg/Kg	10	12/14/2006
m,p-Xylene	ND	40.0		µg/Kg	10	12/14/2006
o-Xylene	ND	20.0		µg/Kg	10	12/14/2006
Toluene	ND	20.0		µg/Kg	10	12/14/2006
Surr: 1,4-Difluorobenzene	109	75-120		%REC	10	12/14/2006
Surr: 4-Bromochlorobenzene	146	50-140	S	%REC	10	12/14/2006
Surr: Fluorobenzene	96.6	70-120		%REC	10	12/14/2006

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

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

Page 5 of 5

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

iiná bá

Date: 22-Dec-06

CLIENT: iina'ba' Inc.
 Work Order: 0612015
 Project: Jicarilla 93 #4

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DR2_S

Sample ID: MBLK_1505	SampType: MBLK	TestCode: 8015DR2_S	Units: mg/Kg	Prep Date: 12/11/2006	Run ID: GC-2_061214A
Client ID: ZZZZZ	Batch ID: 1505	TestNo: SW8015B	(SW8015B)	Analysis Date: 12/14/2006	SeqNo: 122568
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C10-C28	ND	25.0			
Surr: o-Terphenyl	32.98	0	38	0	86.8 35 128 0 0

Sample ID: LCS_061214A	SampType: LCS	TestCode: 8015DR2_S	Units: mg/Kg	Prep Date: 12/11/2006	Run ID: GC-2_061214A
Client ID: ZZZZZ	Batch ID: 1505	TestNo: SW8015B	(SW8015B)	Analysis Date: 12/14/2006	SeqNo: 122570
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C10-C28	551.3	25.0	502	0	110 80 120 0 0
Surr: o-Terphenyl	40.66	0	38	0	107 35 128 0 0

Sample ID: 0612017-002AMS	SampType: MS	TestCode: 8015DR2_S	Units: mg/Kg	Prep Date: 12/11/2006	Run ID: GC-2_061214A
Client ID: ZZZZZ	Batch ID: 1505	TestNo: SW8015B	(SW8015B)	Analysis Date: 12/14/2006	SeqNo: 122578
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C10-C28	433.6	25.0	502	0	86.4 70 130 0 0
Surr: o-Terphenyl	32.2	0	38	0	84.7 35 128 0 0

Sample ID: 0612017-003AD	SampType: DUP	TestCode: 8015DR2_S	Units: mg/Kg	Prep Date: 12/11/2006	Run ID: GC-2_061214A
Client ID: ZZZZZ	Batch ID: 1505	TestNo: SW8015B	(SW8015B)	Analysis Date: 12/14/2006	SeqNo: 122580
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
T/R Hydrocarbons: C10-C28	ND	25.0	0	0	0 0 11.65 0 12
Surr: o-Terphenyl	29.79	0	38	0	78.4 35 128 0 0

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: iina'ba' Inc.
Work Order: 0612015
Project: Jicarilla 93 #4

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_S

Sample ID: MBLK_1504	SampType: MBLK	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 12/11/2006	Run ID: GC-1B_061211A						
Client ID: ZZZZZ	Batch ID: 1504	TestNo: SW8015B	(SW5035A)	Analysis Date: 12/11/2006	SeqNo: 122407						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C6-C10
Surr: Trifluorotoluene
0.7465
1.432
2.50
0
2.5
0
57.3
57
122
0
0
J

Sample ID: LCS_061211A	SampType: LCS	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date:	Run ID: GC-1B_061211A						
Client ID: ZZZZZ	Batch ID: 1504	TestNo: SW8015B	(SW5035A)	Analysis Date: 12/11/2006	SeqNo: 122409						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C6-C10
Surr: Trifluorotoluene
24.44
1.676
2.50
0
2.5
0
94.8
80
120
0
0
0

Sample ID: 0612017-001AMS	SampType: MS	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date:	Run ID: GC-1B_061211A						
Client ID: ZZZZZ	Batch ID: 1504	TestNo: SW8015B	(SW5035A)	Analysis Date: 12/11/2006	SeqNo: 122415						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C6-C10
Surr: Trifluorotoluene
25.4
1.638
2.50
0
2.5
0
90.2
70
130
0
0
0

Sample ID: 0612017-001AMSD	SampType: MSD	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date:	Run ID: GC-1B_061211A						
Client ID: ZZZZZ	Batch ID: 1504	TestNo: SW8015B	(SW5035A)	Analysis Date: 12/11/2006	SeqNo: 122416						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C6-C10
Surr: Trifluorotoluene
23.95
0.9494
2.50
0
2.5
0
84.4
70
130
25.4
5.88
15

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: iina' ba' Inc.
Work Order: 0612015
Project: Jicarilla 93 #4

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID: MB_061212	Sample Type: MBLK	TestCode: BTEX_S	Units: µg/Kg	Prep Date: 12/11/2006	Run ID: GC-1_061212A						
Client ID: ZZZZZ	Batch ID: 1504	TestNo: SW8021B	(SW5035A)	Analysis Date: 2/12/2006	SeqNo: 122466						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	20.0									
Ethylbenzene	ND	20.0									
m,p-Xylene	11.98	40.0									J
o-Xylene	ND	20.0									
Toluene	6.788	20.0									J
Surr: 1,4-Difluorobenzene	1164	0	1000	0	116	75	120	0	0	0	
Surr: 4-Bromochlorobenzene	1295	0	1000	0	130	50	140	0	0	0	
Surr: Fluorobenzene	1128	0	1000	0	113	70	120	0	0	0	

Sample ID: LCS_061212A	SampType: LCS	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	Run ID: GC-1_061212A						
Client ID: ZZZZZ	Batch ID: 1504	TestNo: SW8021B	(SW5035A)	Analysis Date: 2/12/2006	SeqNo: 122467						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	448.2	20.0	400	0	112	70	130	0	0	0	
Ethylbenzene	471.9	20.0	400	0	118	70	130	0	0	0	
m,p-Xylene	925.8	40.0	800	0	116	70	130	0	0	0	
o-Xylene	471.7	20.0	400	0	118	70	130	0	0	0	
Toluene	469.3	20.0	400	0	117	70	130	0	0	0	
Surr: 1,4-Difluorobenzene	1152	0	1000	0	115	75	120	0	0	0	
Surr: 4-Bromochlorobenzene	1246	0	1000	0	125	50	140	0	0	0	
Surr: Fluorobenzene	1102	0	1000	0	110	70	120	0	0	0	

Sample ID: 612017-002AMS	SampType: MS	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	Run ID: GC-1_061212A						
Client ID: ZZZZZ	Batch ID: 1504	TestNo: SW8021B	(SW5035A)	Analysis Date: 2/12/2006	SeqNo: 122461						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	459.5	20.0	400	0	115	70	130	0	0	0	
Ethylbenzene	487	20.0	400	3.296	121	70	130	0	0	0	
m,p-Xylene	966	40.0	800	20.32	118	70	130	0	0	0	
o-Xylene	488.2	20.0	400	0	122	70	130	0	0	0	
Toluene	481	20.0	400	7.492	118	70	130	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: iina' ba' Inc.
 Work Order: 0612015
 Project: Jicarilla 93 #4

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_S

Sample ID: 612017-002AMS		SampleType: MS	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	Run ID: GC-1_061212A					
Client ID: ZZZZZ		Batch ID: 1504	TestNo: SW8021B	(SW5035A)	Analysis Date: 2/12/2006	SeqNo: 122461					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1,4-Difluorobenzene	1127	0	1000	0	113	75	120	0	0		
Surr: 4-Bromochlorobenzene	1290	0	1000	0	129	50	140	0	0		
Surr: Fluorobenzene	1083	0	1000	0	108	70	120	0	0		

Sample ID: 0612017-002AMSD	SampType: MSD	TestCode: BTEX_S	Units: µg/Kg	Prep Date:	Run ID: GC-1_061212A						
Client ID: ZZZZZ	Batch ID: 1504	TestNo: SW8021B	(SW5035A)	Analysis Date: 2/12/2006	SeqNo: 122462						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	450.5	20.0	400	0	113	70	130	459.5	1.97	15	
Ethylbenzene	473.6	20.0	400	3.296	118	70	130	487	2.78	15	
m,p-Xylene	939	40.0	800	20.32	115	70	130	966	2.83	15	
o-Xylene	480.3	20.0	400	0	120	70	130	488.2	1.61	15	
Toluene	472.8	20.0	400	7.492	116	70	130	481	1.73	15	
Surr: 1,4-Difluorobenzene	1139	0	1000	0	114	75	120	0	0	0	
Surr: 4-Bromochlorobenzene	1381	0	1000	0	138	50	140	0	0	0	
Surr: Fluorobenzene	1100	0	1000	0	110	70	120	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

iiná bá

Sample Receipt Checklist

Client Name: IIN1002

Date and Time Received: 12/8/2006 3:55:00 PM

Work Order Number: 0612015

Received by: jem

Checklist completed by:

J Moore 12/8/06
Signature Date

Reviewed by:

JFC 12/11/06
Initials Date

Matrix:

Carrier name: Lavina Lamone

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	6°C
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐ Soil
Water - pH acceptable upon receipt?	Yes ☐	No ☒	

Adjusted? _____ Checked by: _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____



CHAIN OF CUSTODY RECORD

5645

Page 1 of 1

Date 12/8/06

6612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
Phone: (505) 327-1072 • Fax: (505) 327-1496

REPORT RESULTS TO:	Report to: LAVINA LEMONE		Job No.: 5916596		
	Company: Linda's bed		Name:		
Address: 613 E. Murray Dr		Company:		PO No.:	
City: Farmington, NM		Address:		Name:	
Phone:		Fax:		City:	
Turnaround Time:		Email:		Analysis Requested	
10 days (normal) ☒		Sample Integrity Intact ☒		Subcontract Yes ☐	
24-48 hours (100%) ☐		On Ice ☒		No ☐	
3-5 days (50%) ☐		Sampling Location: Jicarilla 93#4 (Williams Production)			
Sample Identification		Sample Date		Matrix Pres.	
Center Pt @ 12'		12/8/06 1248		Soil	
S. END @ 12'		1311		✓	
W END @ 12'		1312		✓	
N END @ 12'		1313		✓	
E END @ 12'		1314		✓	
Relinquished by:		Date/Time:		Received by: J. Moore	
Relinquished by:		Date/Time:		Received by:	
Relinquished by:		Date/Time:		Received by:	
Comments:				Date/Time: 12/8/06 15:15	

0730-0930 - MOBE TO SITE

0930 - Arrives on site

Tommy Clements (Williams), James Bayle & Crew(3) (Sierra Dildred)
are already on site. Hot oil pump on site to heat product
in tank.

1045 - H₂O^{Truck} (Dawn Trucking) arrives on site

1120 - Tommy Clements estimates 10 bbl vacuumed out of tank?

1130 - H₂O Truck leaves site. Crew preps for pit removal.

1132 - BAT is removed! (7' H 15' d 120 bbl)

1138 - "Poor Boys Hot Oil Services" truck leaves site

1142 2' under liner center of pit @ 227 ppm (9')

1148 4' under liner center of pit @ 138 ppm

1212 10' ^{end} of pit @ 259 ppm

1213 10' ^{end} of pit @ 293 ppm

1243 19' middle. 1341 ppm

1250 called Mike Lane, ~~he~~ informed to stop digging, take samples,
back fill w/ clean dirt.

1314 - Took last of 5 samples.

1325 - left site

