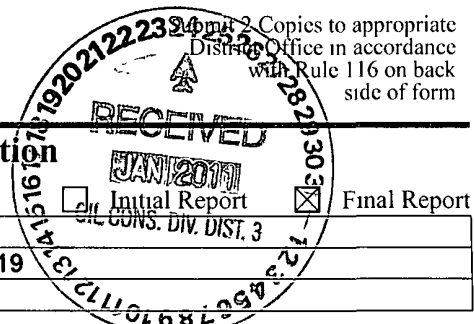


District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised October 10, 2003

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



Release Notification and Corrective Action

OPERATOR

Name of Company Williams Production	Contact Michael K. Lane
Address PO Box 640	Telephone No. 505-634-4219
Facility Name Jicarilla 92 #002 (API: 30-039-06897)	Facility Type Well Site
Surface Owner Tribal	Mineral Owner Tribal
Lease No.	

LOCATION OF RELEASE

Unit Letter K	Section 29	Township 27 N	Range 03W	Feet from the	North/South Line	Feet from the	East/West Line	County Rio Arriba
-------------------------	----------------------	-------------------------	---------------------	---------------	------------------	---------------	----------------	-----------------------------

Latitude 36.54175 Longitude -107.17211

NATURE OF RELEASE

Type of Release Produced Water and Condensate	Volume of Release ~128 BBL	Volume Recovered ~47 BBL
Source of Release Production Tanks	Date and Hour of Occurrence 12/1/10 8:40AM	Date and Hour of Discovery 12/1/10 9:00AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Bryce Hammond-BLM Jicarilla Area, Brandon Powell NMOCD, Kevin Schnieder BLM, Rod Velarde (Jicarilla Tribe)	
By Whom? Myke Lane	Date and Hour 12/1/10 10.10AM (Jicarilla), 12/2/10 PM (email others)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully		
Describe Cause of Problem and Remedial Action Taken Drain valve froze and broke releasing liquid from dual tank battery Estimate of liquid volume based on tank strapping on 11/17/10 and strapping following product recovery (see attached spreadsheet). Release discovered when hi-level alarm notified operations tech on below-grade tank the morning of 12/1/10. Immediate corrective actions involved, repairing broken valve, recovering liquids from below-grade tank and puddles in containment by vac truck and returning liquids to production tanks for measurement. BLM and Tribe notified of incident, and One-Calls made to initiate soil remediation by excavation and offsite disposal		
Describe Area Affected and Cleanup Action Taken Removed tanks, excavate impacted soils for offsite disposal, sample to verify closure and import clean material as directed by the Jicarilla Tribe Summary Report of cleanup attached		
Criteria	Site Condition	Ranking Score
Depth to Groundwater	60 (Cathodic)	10
Wellhead Protection Area	None	0
Surface Water Body	>1000 ft	0
Total Ranking		10
Lab	Results	Remediation Action Level
	Following Soil Removal	
Benzene (ppb)	3 8 to 7 1	10,000
BTEX (ppb)	8 9 to 88 8	50,000
TPH by EPA - 418 1 (ppm)	152 -236	1000
TPH by EPA - 8015m (ppm)	<0.2	1000

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:	OIL CONSERVATION DIVISION	
Printed Name Michael K. Lane	Approved by District Supervisor.	
Title SJB EH&S Specialist	Approval Date 1/24/11	Expiration Date
E-mail Address myke.lane@williams.com	Conditions of Approval	Attached <input type="checkbox"/>
Date 1/19/11	Phone: (505) 330-3198	122336941

* Attach Additional Sheets If Necessary

36



January 11, 2011

Project Number 04108-0181

Ms. Cyd Shepard
Williams Exploration & Production
Mail Drop 44-AP PO Box 21218
Tulsa, Oklahoma 74121

Phone (505) 330-0222

**RE: CONFIRMATION SAMPLING DOCUMENTATION FOR THE JICARILLA 92 #2 WELL SITE,
RIO ARriba COUNTY, NEW MEXICO**

Dear Ms. Shepard,

Enclosed please find the field notes and analytical results for confirmation sampling activities performed at the Jicarilla 92 #2 well site located in Section 29, Township 27N, Range 3W, Rio Arriba County, New Mexico. Prior to Envirotech's arrival, the area of release had been excavated to approximately 54 feet by 43 feet by 10 feet deep; see *Site Map* and *Field Notes*. Upon Envirotech's arrival, a brief site assessment was conducted and the cleanup standard for the site was determined to be 100 ppm total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, due to the location being on Jicarilla Apache Reservation land.

Five (5) five-point composite samples were collected from the walls and the bottom of the excavated area. The area with visual contamination was excavated an additional three (3) feet due to high organic vapor readings. One (1) grab sample was collected from the area containing visual contamination. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a Photoionization Detector (PID). All samples returned results above the regulatory standards for TPH for this site. All six (6) samples were collected into four (4) ounce glass jars, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and for benzene and BTEX using USEPA Method 8021. All samples returned results of non-detect (ND) for TPH and below the regulatory standards for benzene and BTEX; therefore, further excavation was not required. Approximately 844 cubic yards of contaminated soil were transported to Envirotech's New Mexico Oil Conservation Division (NMOCD) permitted landfarm #2-5 for remediation; see attached *Bills of Lading*. Envirotech, Inc. recommends no further action in regards to this incident.

RECEIVED

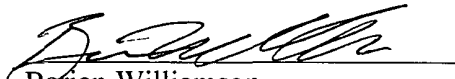
JAN 18 2011

WPX

Williams Exploration & Production
Project Numer 04108-0181
Confirmation Sampling
Jicarilla 92 #2
January 2011

We appreciate the opportunity to be of service. Should you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.


Brian Williamson
Senior Environmental Technician
bwilliamson@envirotech-inc.com

Enclosure(s): Field Notes
Site Map
Analytical Results
Bills of Lading

Cc: Client File No. 04108

Client: Williams

Location No:

C.O.C. No:

04108-0181

FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 1 OF 1DATE STARTED: 12-10-10DATE FINISHED: 12-10-10LOCATION: NAME: Jicarilla 92 WELL #: 2QUAD/UNIT: SEC: 29 TWP: 27N RNG: 3W PM: CNTY: RA STNM.QTR/FOOTAGE: CONTRACTOR: Caulder

ENVIRONMENTAL

SPECIALIST: BSWEXCAVATION APPROX: 54 FT. X 43' FT. X 10 FT. DEEP CUBIC YARDAGE:DISPOSAL FACILITY: Envirotech LF3 REMEDIATION METHOD: RemovalLAND USE: Jicarilla LEASE: 3003906897 LAND OWNER: JicarillaCAUSE OF RELEASE: Valve leak MATERIAL RELEASED: Condensate / H₂OSPILL LOCATED APPROXIMATELY: 129 FT. 249° FROM WH

DEPTH TO GROUNDWATER: - NEAREST WATER SOURCE: - NEAREST SURFACE WATER: -

NMOC D RANKING SCORE: N/A NMOC D TPH CLOSURE STD: 100 PPM Due to Jicarilla

SOIL AND EXCAVATION DESCRIPTION: collected samples from each wall and bottom then chased a layer of condensate toward existing separator. Collected a sample from Visual location. Spoke with Dixon S. JERA to relay results to him.

246 STD-10:14 - 247 PPM

SAMPLE DESCRIPTION	TIME	SAMPLE I D	LAB NO	WEIGHT (g)	mL FREON	DILUTION	READING	CALC ppm
East Wall	10:30	3		5	20	4	40	160
North Wall	10:27	2		5	20	4	41	164
West Wall	10:37	4		5	20	4	38	152
Bottom N	10:24	1		5	20	4	59	236
South Wall	13:03	5		5	20	4	50	200
Visual	13:06	6		5	20	4	41	164

SPILL PERIMETER

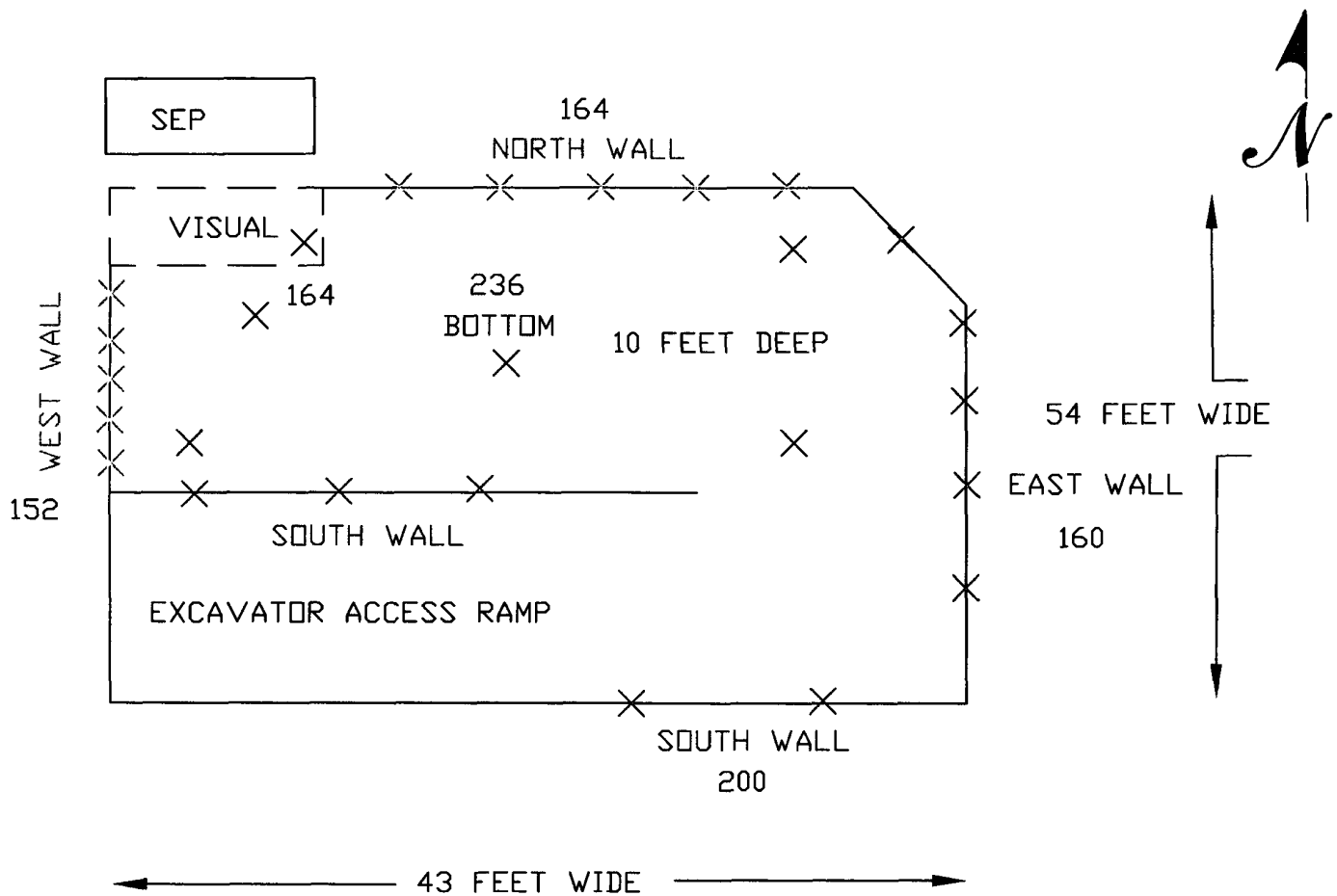
OVM
RESULTS

SPILL PROFILE

SAMPLE ID	FIELD HEADSPACE PID (ppm)	
	1	2
1	25.8	
2	0.1	
3	0.0	
4	0.5	
5	0.0	
6	1.7	
LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES: CALLED OUT:

ONSITE @ 9:45 / 13:30 left



—— EXCAVATION EXTENTS

— — VISUAL CONTAMINATION REMOVAL

200 TPH FIELD READING PPM

SITE MAP WILLIAMS PRODUCTION

JICARILLA 92 #2
SECTION 29 TOWNSHIP 27N RANGE 3W
CONFIRMATION SAMPLING

SCALE: NTS
PROJECT NO. 04108-0181

FIGURE NO. 1

REV

REVISIONS

NO	DATE	BY	DESCRIPTION
MAP DRWN	BWW	12-23-10	BASE DRWN



5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

Client:	Williams Production	Project #:	04108-0181
Sample No.:	1	Date Reported:	12/27/2010
Sample ID:	Bottom	Date Sampled:	12/10/2010
Sample Matrix:	Soil	Date Analyzed:	12/10/2010
Preservative:	Cool	Analysis Needed:	TPH-418 1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	236	5.0

ND = Parameter not detected at the stated detection limit

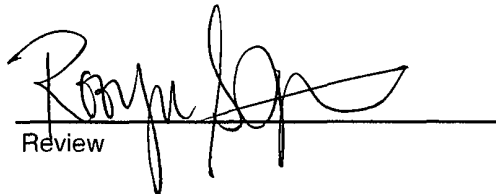
References: Method 418 1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978

Comments: **Jicarilla 92 #2**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson, FT
Printed


Review

Robyn Jones, EIT
Printed

Client:	Williams Production	Project #	04108-0181
Sample No.:	2	Date Reported	12/27/2010
Sample ID:	North Wall	Date Sampled	12/10/2010
Sample Matrix:	Soil	Date Analyzed	12/10/2010
Preservative:	Cool	Analysis Needed:	TPH-418 1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	164	5.0

ND = Parameter not detected at the stated detection limit


References: Method 418 1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 92 #2**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson, FT
Printed


Review

Robyn Jones, EIT
Printed

Client:	Williams Production	Project #:	04108-0181
Sample No	3	Date Reported	12/27/2010
Sample ID:	East Wall	Date Sampled	12/10/2010
Sample Matrix:	Soil	Date Analyzed:	12/10/2010
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	160	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978

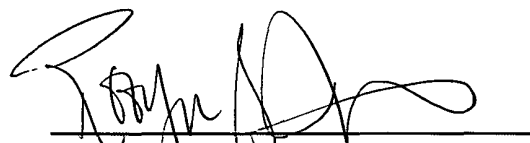
Comments: **Jicarilla 92 #2**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson, FT

Printed


Review

Robyn Jones, EIT

Printed

Client:	Williams Production	Project #	04108-0181
Sample No.:	4	Date Reported:	12/27/2010
Sample ID:	West Wall	Date Sampled:	12/10/2010
Sample Matrix:	Soil	Date Analyzed:	12/10/2010
Preservative:	Cool	Analysis Needed	TPH-418 1
Condition:	Cool and Intact		


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	152	5.0

ND = Parameter not detected at the stated detection limit

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

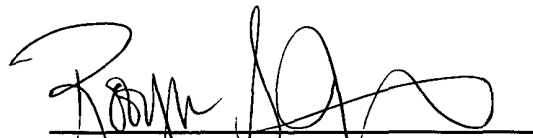
Comments: **Jicarilla 92 #2**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson, FT

Printed


Review

Robyn Jones, EIT

Printed

Client:	Williams Production	Project #:	04108-0181
Sample No :	5	Date Reported:	12/27/2010
Sample ID:	South Wall	Date Sampled	12/10/2010
Sample Matrix:	Soil	Date Analyzed:	12/10/2010
Preservative.	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

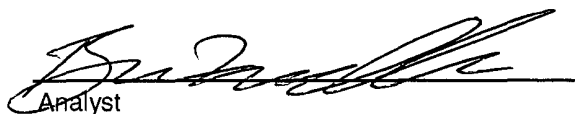
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	200	5.0

ND = Parameter not detected at the stated detection limit.

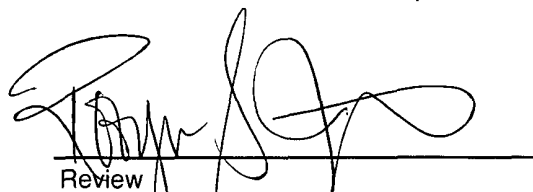
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978

Comments: **Jicarilla 92 #2**

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson, FT
Printed


Review
Robyn Jones, EIT
Printed

Client:	Williams Production	Project #:	04108-0181
Sample No.:	6	Date Reported:	12/27/2010
Sample ID:	Visual	Date Sampled:	12/10/2010
Sample Matrix:	Soil	Date Analyzed:	12/10/2010
Preservative:	Cool	Analysis Needed:	TPH-418 1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	164	5.0
------------------------------	-----	-----

ND = Parameter not detected at the stated detection limit.


References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No 4551, 1978

Comments: Jicarilla 92 #2

Instrument calibrated to 200 ppm standard. Zeroed before each sample


Analyst

Barian Williamson, FT
Printed



Review

Robyn Jones, EIT
Printed

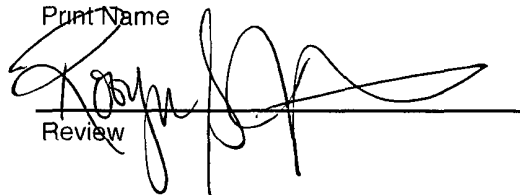
Cal. Date: 10-Dec-10

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	246	247
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.


Analyst12/27/2010
DateBarian Williamson, FT

Print Name


Review12/27/2010
DateRobyn Jones, EIT

Print Name

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Williams	Project #:	04108-0181
Sample ID:	Visual	Date Reported:	12-14-10
Laboratory Number:	56718	Date Sampled:	12-10-10
Chain of Custody No:	10874	Date Received:	12-10-10
Sample Matrix:	Soil	Date Extracted:	12-10-10
Preservative:	Cool	Date Analyzed:	12-13-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Jicarilla 92 #2**



Analyst

Review



envirotech
Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**


Client:	Williams	Project #:	04108-0181
Sample ID:	North Wall	Date Reported:	12-14-10
Laboratory Number:	56719	Date Sampled:	12-10-10
Chain of Custody No:	10874	Date Received:	12-10-10
Sample Matrix:	Soil	Date Extracted:	12-10-10
Preservative:	Cool	Date Analyzed:	12-13-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	


ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Jicarilla 92 #2**



Analyst



Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Williams	Project #:	04108-0181
Sample ID:	West Wall	Date Reported:	12-14-10
Laboratory Number:	56720	Date Sampled:	12-10-10
Chain of Custody No:	10874	Date Received:	12-10-10
Sample Matrix:	Soil	Date Extracted:	12-10-10
Preservative:	Cool	Date Analyzed:	12-13-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Jicarilla 92 #2**



Analyst



Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Williams	Project #:	04108-0181
Sample ID:	Bottom	Date Reported:	12-14-10
Laboratory Number:	56721	Date Sampled:	12-10-10
Chain of Custody No:	10874	Date Received:	12-10-10
Sample Matrix:	Soil	Date Extracted:	12-10-10
Preservative:	Cool	Date Analyzed:	12-13-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Jicarilla 92 #2**



Analyst

Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

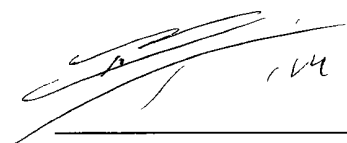
Client:	Williams	Project #:	04108-0181
Sample ID:	South Wall	Date Reported:	12-14-10
Laboratory Number:	56722	Date Sampled:	12-10-10
Chain of Custody No:	10874	Date Received:	12-10-10
Sample Matrix:	Soil	Date Extracted:	12-10-10
Preservative:	Cool	Date Analyzed:	12-13-10
Condition:	Intact	Analysis Requested:	8015 TPH

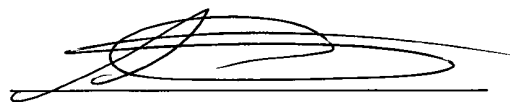
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Jicarilla 92 #2**



Analyst

Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Williams	Project #:	04108-0181
Sample ID:	East Wall	Date Reported:	12-14-10
Laboratory Number:	56723	Date Sampled:	12-10-10
Chain of Custody No:	10874	Date Received:	12-10-10
Sample Matrix:	Soil	Date Extracted:	12-10-10
Preservative:	Cool	Date Analyzed:	12-13-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

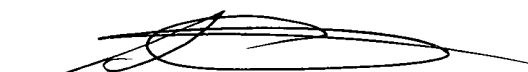
ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Jicarilla 92 #2**



Analyst



Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-13-10 QA/QC	Date Reported:	12-14-10
Laboratory Number:	56728	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-13-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	12-13-10	8.9964E+002	9.0000E+002	0.04%	0 - 15%
Diesel Range C10 - C28	12-13-10	7.9968E+002	8.0000E+002	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	249	100%	75 - 125%
Diesel Range C10 - C28	ND	250	282	113%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Comments: QA/QC for Samples 56728, 56718-56723



Analyst



Review

Client:	Williams	Project #:	04108-0181
Sample ID:	Visual	Date Reported:	12-115-10
Laboratory Number:	56718	Date Sampled:	12-10-10
Chain of Custody:	10874	Date Received:	12-10-10
Sample Matrix:	Soil	Date Analyzed:	12-14-10
Preservative:	Cool	Date Extracted:	12-10-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	7.1	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	2.9	1.2
o-Xylene	3.1	0.9
Total BTEX	13.1	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.9 %
	1,4-difluorobenzene	105 %
	Bromochlorobenzene	89.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla 92 #2



 Analyst



 Review

Client:	Williams	Project #:	04108-0181
Sample ID	North Wall	Date Reported	12-115-10
Laboratory Number	56719	Date Sampled:	12-10-10
Chain of Custody:	10874	Date Received.	12-10-10
Sample Matrix:	Soil	Date Analyzed	12-14-10
Preservative:	Cool	Date Extracted	12-10-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	5.3	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	2.9	1.2
o-Xylene	3.0	0.9
Total BTEX	11.2	


ND - Parameter not detected at the stated detection limit

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.5 %
	1,4-difluorobenzene	104 %
	Bromochlorobenzene	82.8 %

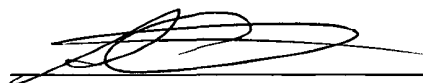
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla 92 #2



 Analyst



 Review

Client:	Williams	Project #:	04108-0181
Sample ID:	West Wall	Date Reported:	12-115-10
Laboratory Number:	56720	Date Sampled:	12-10-10
Chain of Custody	10874	Date Received:	12-10-10
Sample Matrix:	Soil	Date Analyzed:	12-14-10
Preservative:	Cool	Date Extracted:	12-10-10
Condition	Intact	Analysis Requested:	BTEX
		Dilution	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3.8	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	2.2	1.2
o-Xylene	2.9	0.9
Total BTEX	8.9	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	106 %
	Bromochlorobenzene	87.3 %

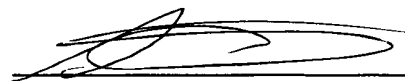
References. Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Comments: Jicarilla 92 #2



Analyst



Review

Client:	Williams	Project #.	04108-0181
Sample ID.	Bottom	Date Reported.	12-115-10
Laboratory Number	56721	Date Sampled.	12-10-10
Chain of Custody:	10874	Date Received	12-10-10
Sample Matrix:	Soil	Date Analyzed	12-14-10
Preservative:	Cool	Date Extracted:	12-10-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	5.0	0.9
Toluene	6.2	1.0
Ethylbenzene	2.2	1.0
p,m-Xylene	72.5	1.2
o-Xylene	2.9	0.9
Total BTEX	88.8	

ND - Parameter not detected at the stated detection limit

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	102 %
	1,4-difluorobenzene	107 %
	Bromochlorobenzene	87.7 %

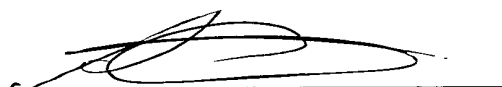
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla 92 #2



Analyst



Review

Client:	Williams	Project #	04108-0181
Sample ID:	South Wall	Date Reported:	12-115-10
Laboratory Number	56722	Date Sampled:	12-10-10
Chain of Custody:	10874	Date Received:	12-10-10
Sample Matrix:	Soil	Date Analyzed:	12-14-10
Preservative:	Cool	Date Extracted:	12-10-10
Condition:	Intact	Analysis Requested	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	6.0	0.9
Toluene	1.4	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	18.4	1.2
o-Xylene	3.3	0.9
Total BTEX	29.1	

ND - Parameter not detected at the stated detection limit

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.4 %
	1,4-difluorobenzene	103 %
	Bromochlorobenzene	87.4 %

References Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Comments: **Jicarilla 92 #2**



Analyst



Review

Client	Williams	Project #.	04108-0181
Sample ID.	East Wall	Date Reported:	12-115-10
Laboratory Number.	56723	Date Sampled:	12-10-10
Chain of Custody:	10874	Date Received:	12-10-10
Sample Matrix:	Soil	Date Analyzed:	12-14-10
Preservative.	Cool	Date Extracted:	12-10-10
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	8.4	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	6.0	1.2
o-Xylene	3.1	0.9
Total BTEX	17.5	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.5 %
	1,4-difluorobenzene	105 %
	Bromochlorobenzene	86.3 %

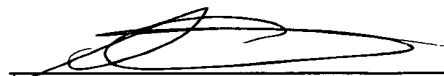
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla 92 #2



Analyst



Review

Client:	N/A	Project #	N/A
Sample ID:	1213BBL2 QA/QC	Date Reported	12-15-10
Laboratory Number:	56718	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-14-10
Condition:	N/A	Analysis	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	4.9976E+006	5.0076E+006	0.2%	ND	0.1
Toluene	1.5116E+006	1.5147E+006	0.2%	ND	0.1
Ethylbenzene	1.1485E+006	1.1508E+006	0.2%	ND	0.1
p,m-Xylene	2.4679E+006	2.4729E+006	0.2%	ND	0.1
o-Xylene	9.0275E+005	9.0456E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	7.1	6.6	7.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	2.9	2.8	3.4%	0 - 30%	1.2
o-Xylene	3.1	3.1	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	7.1	500	553	109%	39 - 150
Toluene	ND	500	570	114%	46 - 148
Ethylbenzene	ND	500	550	110%	32 - 160
p,m-Xylene	2.9	1000	1,090	109%	46 - 148
o-Xylene	3.1	500	532	106%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996


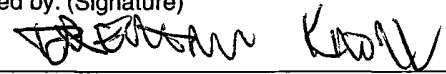
Comments: QA/QC for Samples 56718-56723

Analyst

Review

CHAIN OF CUSTODY RECORD

10874

Client: Williams			Project Name / Location: Jicarilla 92 #2			ANALYSIS / PARAMETERS															
Client Address:			Sampler Name: SARAH WILLIAMSON			<div style="display: flex; justify-content: space-between;"> <div> X TPH (Method 8015) X BTEX (Method 8021) </div> <div> VOC (Method 8260) PCRA 8 Metals Cation / Anion RCI TCLP with H/P PAH TPH (418.1) CHLORIDE </div> <div> Sample Cool Sample Intact </div> </div>															
Client Phone No.:			Client No.: 04108-0181																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl S			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact	
Visual	12/10/10	13:06	56718	Soil Solid Sludge Aqueous	1-4oz				X	X	X									Y	Y
NORTH WALL	↓	10:27	56719	Soil Solid Sludge Aqueous	↓				X	X	X									↓	↓
WEST WALL	↓	10:37	56720	Soil Solid Sludge Aqueous	↓				X	X	X									↓	↓
Bottom	↓	10:24	56721	Soil Solid Sludge Aqueous	↓				X	X	X									↓	↓
SOUTH WALL	↓	13:03	56722	Soil Solid Sludge Aqueous	↓				X	X	X									↓	↓
EAST WALL	↓	10:30	56723	Soil Solid Sludge Aqueous	↓				X	X	X									↓	↓
				Soil Solid Sludge Aqueous																	
				Soil Solid Sludge Aqueous																	
				Soil Solid Sludge Aqueous																	
				Soil Solid Sludge Aqueous																	
Relinquished by: (Signature) 			Date 12/10/10	Time 15:10	Received by: (Signature) 										Date 12/10/10	Time 15:10					
Relinquished by: (Signature)					Received by: (Signature)																
Relinquished by: (Signature)					Received by: (Signature)																



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Bill of Lading

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MANIFEST # 37164
DATE 12-7-10 JOB# 04108-0180

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Williams Site 92-2	LFII-5	CON.T. SOIL	R-39	20	—	Calder Service	325	940	[Signature]
2	"	"	"	S-39	12	—	"	329	945	[Signature]
3	"	"	"	S-39	12	—	"	331	958	[Signature]
4	"	"	"	S-39	12	—	"	321	11:27	Chris Monk
5	"	"	"	R-39	20	—	"	325	1258	[Signature]
6	"	"	"	S-39	12	—	"	329	1324	[Signature]
7	"	"	"	S-39	12	—	"	331	1357	[Signature]
8	"	"	"	S-39	12	—	"	331	1610	Chris Monk
9	"	"	"	S-39	12	—	"	329	1625	[Signature]
					124					
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
4294	CHLORIDE TEST	2	Certification of above receipt & placement							
	PAINT FILTER TEST	2								

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

TRANSPORTER CO. CALDER SERVICE NAME DARRELL ROSE SIGNATURE [Signature]

COMPANY CONTACT BILL PUSKAS PHONE 505-320-6862 DATE 12-7-10

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MANIFEST # 37206

DATE 12-9-10 JOB# 04108-0180

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Williams Jic 92-2	LEA-5	cont soil	S-39	12	-	Colder Service	331	810	[Signature]
2	"	"	"	R-39	20	-	"	385	1136	[Signature]
3	"	"	"	S-39	12	-	"	331	1142	[Signature]
4	"	"	"	R-39	20	-	"	325	301	[Signature]
5	"	"	"	S-39	12	-	"	331	1501	[Signature]
6	"	"	"	S-39	12	-	"	329	1528	[Signature]
RESULTS.		LANDFARM EMPLOYEE:		NOTES:						
-294	CHLORIDE TEST	2	Gary Robinson							
	PAINT FILTER TEST	2	Certification of above receipt & placement							

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

TRANSPORTER CO. _____ NAME Felton Jim SIGNATURE [Signature]

COMPANY CONTACT Levi Thurson PHONE 330-6034 DATE 8-9-10

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MANIFEST # 37138

DATE 12-4-10 JOB# 0408-0180

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Williams Jic 92-2	LF II-5	Cont Soil	CC-17	12	-	Calder	331	8:00am	Shandi R
2	"	"	"	CC-17	12	-	Calder	329	10:22	Andy
3	"	"	"	CC-17	12	-	Calder	321	10:40	Shandi R
4	"	"	"	CC-17	12	-	Calder	331	11:20	Shandi R
5	"	"	"	CC-17	12	-	Calder	329	1:14	Andy
6	"	"	"	CC-17	12	-	Calder	321	1:51	Shandi R
7	"	"	"	CC-17	12	-	Calder	331	2:43	Shandi R
8	"	"	"	CC-17	12	-	Calder	329	3:56	Andy
					96					
RESULTS:			LANDFARM EMPLOYEE:			NOTES:				
294	CHLORIDE TEST	2	Certification of above receipt & placement			Weekend receipt - Charge fee				
	PAINT FILTER TEST	2								

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

TRANSPORTER CO. Calder Service NAME Shandi R SIGNATURE Shandi R

COMPANY CONTACT Bill Russo 320-6862 PHONE (505) 320-6862 DATE 12/4/10

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MANIFEST # 37139

DATE 12-5-10 JOB# 04108-0180

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
1	Williams Tic 92-2	LF H-5	cont Soil	CC-18	12	-	Calder	321	8:50	<i>[Signature]</i>	
2	"	"	"	"	12	-	Calder	331	8:50	<i>[Signature]</i>	
3	"	"	"	"	12	-	Calder	329	8:50	<i>[Signature]</i>	
4	"	"	"	"	20 +2	-	Calder	325	9:13	<i>[Signature]</i>	
5	"	"	"	"	12	-	Calder	321	11:11	<i>[Signature]</i>	
6	"	"	"	"	12	-	Calder	329	11:50	<i>[Signature]</i>	
7	"	"	"	"	12	-	Calder	331	11:55	<i>[Signature]</i>	
8	"	"	"	"	20 +2	-	Calder	325	12:20	<i>[Signature]</i>	
9	"	"	"	"	12	-	Calder	321	2:30	<i>[Signature]</i>	
10	"	"	"	"	12	-	Calder	329	2:40	<i>[Signature]</i>	
11	"	"	"	"	12	-	Calder	331	2:58	<i>[Signature]</i>	
12	"	"	"	"	20	-	Calder	325	3:15	<i>[Signature]</i>	
RESULTS:		LANDFARM EMPLOYEE:		NOTES:							
294	CHLORIDE TEST	3	<i>[Signature]</i>		Weekend recusal-charge fee						
	PAINT FILTER TEST	3									
Certification of above receipt & placement											

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

TRANSPORTER CO. CALDER SERVICES NAME DARRELL HENS SIGNATURE *[Signature]*

COMPANY CONTACT BILL RUSSELL PHONE 505-320-6862 DATE 12-5-10

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MANIFEST # 37243

DATE 12-11-10 JOB# 04108-0180

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Williams J.C 92-2	LFI-5	cont SOIL	E38	20	-	Bulder Sav.	325	7:21	Gandy
2	"	"	"	"	12	-	Calder Ser	329	7:22	Shelia Ricks
3	"	"	"	"	12	-	Grossen	331	7:23	Joe
4	"	"	"	"	12	-	Coldr	321	7:24	Wynn
					56					
RESULTS:		LANDFARM EMPLOYEE:		Gary Kolman 			NOTES: Weekend received - charge fee			
294	CHLORIDE TEST	1								
	PAINT FILTER TEST	1	Certification of above receipt & placement							

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

TRANSPORTER CO. _____ NAME Andy Jin SIGNATURE Andy Jin

COMPANY CONTACT Cablex Srv. PHONE 505-801-0026 DATE 12-11-10

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MANIFEST # 37226

DATE ~~12-10-10~~ 12-10-10 JOB# 04108-0180

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Williams sic 92-2	LFII-5	CON'T SOIL	P-39	12	-	Cotton	321	9:27	<i>[Signature]</i>
2	" "	"	"	P-39	12	-	Service	329	9:27	<i>[Signature]</i>
3	" "	"	"	P-39	20	-	"	325	9:28	<i>[Signature]</i>
4	" "	"	"	P-39	12	-	"	331	10:57	<i>[Signature]</i>
5	" "	"	"	P-39	12	-	"	321	12:33	<i>[Signature]</i>
6	" "	"	"	P-39	12	-	"	329	12:41	<i>[Signature]</i>
7	" "	"	"	P-39	20	-	"	325	1:05	<i>[Signature]</i>
8	" "	"	"	P-39	12	-	"	331	13:52	<i>[Signature]</i>
9	" "	"	"	P-39	20	-	"	321	15:29	<i>[Signature]</i>
10	" "	"	"	P-39	20	-	"	329	15:35	<i>[Signature]</i>
11	" "	"	"	P-39	20	-	"	325	15:45	<i>[Signature]</i>
						164				
RESULTS:			LANDFARM EMPLOYEE:	NOTES:						
294	CHLORIDE TEST	3	<i>Gary Robinson</i>							
	PAINT FILTER TEST	3								
Certification of above receipt & placement										

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

TRANSPORTER CO. CALDER SERVICES NAME DANIEL HANE SIGNATURE *[Signature]*

COMPANY CONTACT Bill Russel PHONE 505-320-6862 DATE 12-10-10

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