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Closure Report

Dakota Resources: Trigg Fed #1 SWD
[30-015-25006|2RP-1814|

October 28, 2016

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

Prepared For:

Dakota Resources, Inc.
4912 N. Midkiff Rd.
Midland, TX 79705

Ms. Heather Patterson
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Remedial Activities and Closure Report**
Dakota Resources
Trigg Fed #1 SWD
|30-015-25006|2RP-1814|

Dear Ms. Patterson,

Dakota Resources (Dakota) has contracted Talon/LPE (Talon) to perform initial spill response, soil sampling and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

Site Information

The Trigg Fed #1 SWD is located approximately ten (10) miles east of Carlsbad, New Mexico. The legal location for this facility is Unit Letter L, Section 7, Township 21 South and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude are 32.493084 North and -104.1323318 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS), the soil in this area is made up the Gypsum land-Reeves complex, with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer the ground water in this area is approximately 69-feet below ground surface (BGS). Therefore the ranking for this site is a **10** based on the following:

Depth to ground water	50-100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **10**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 1,000 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On August 8, 2013 a hole in one of the storage tanks resulted in the loss of 40bbls of mixed fluids. The fluid impacted the tank battery and breached the berm near the gate. The fluid flowed southeast across the location for approximately 60-feet. Talon mobilized personnel to conduct soil sampling within the impacted area. Upon receipt of laboratory results from the initial sampling event it was determined that further vertical delineation would be required.

In June of 2014 an air rotary drill rig was used to vertically delineate the chloride impacts within the battery. Following the site delineation a work plan was drafted and subsequently approved by NMOCD and BLM.

In July of 2016 Dakota was able to move forward with the remediation project. Talon consulted with NMOCD and BLM regarding the age of the soil sampling data and the possible movement of chloride impacts at this location. NMOCD and BLM requested that another boring be drilling inside of the battery to reassess the vertical extent of the chloride impacts. NMOCD and BLM also stipulated that confirmation samples be taken from the excavation in the vicinity of sample locations S-4 and S-5. The following data tables summarize all of the sampling events undertaken at this location. See [Appendix V](#) for a complete report of laboratory results.

Laboratory Results

See [Appendix V](#) for complete report of laboratory results.

Initial Sampling 11/9/2013

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	3400	ND	622
S-1	1	ND	6160	ND	280
S-1	2	ND	1840	ND	48.7
S-1	3	ND	6660	ND	ND
S-1	4	ND	8660	ND	10.9
S-2	0	ND	2720	ND	15900
S-2	1	ND	12300	ND	1000
S-2	2	ND	2240	ND	839
S-2	3	ND	5760	ND	3830
S-2	4	ND	6640	ND	1730
S-3	0	ND	7600	ND	10100
S-3	1	ND	9120	ND	4300
S-3	2	ND	1880	ND	27.1
S-3	3	ND	5600	ND	ND
S-3	4	ND	7920	ND	40.7
S-4	0	ND	11500	ND	9180
S-4	1	165	13900	4780	11800
S-4	2 (refusal)	141	1730	3140	7020
S-5	0	ND	4640	ND	ND
S-5	1	ND	1020	ND	ND
S-5	2	ND	1310	ND	ND
S-5	3	ND	1310	ND	ND
S-5	4	ND	752	ND	ND

Initial Soil Boring 6/19/2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
BH-1	5	3.46	6560	54.3	518
BH-1	10	ND	4000	ND	ND
BH-1	15	--	5280	--	--
BH-1	20	--	5520	--	--
BH-1	25	--	2240	--	--
BH-1	35	--	1380	--	--
BH-1	40	--	304	--	--

Reassessment Soil Boring 7/8/2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
BH-1	10	ND	3000	ND	34.1
BH-1	40	--	224	--	--
BH-1	50	--	192	--	--

Confirmation Sampling 9/26/2016 - 10/11/2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-4N.WALL	NA	ND	--	ND	ND
S-4S.WALL	NA	ND	--	ND	35.8
S-4E.WALL	NA	ND	--	ND	256
S-5N.WALL*	NA	--	212	--	--
S-5S.WALL*	NA	--	567	--	--
S-5E.WALL*	NA	--	212	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

(*) Field Titration

Remedial Actions

- August 8, 2013, a 40bbl release occurred at the Trigg Fed #1 SWD.
- November 9, 2013, Talon conducted initial soil sampling within the impacted area utilizing a hand auger.
- June 19, 2014, a soil boring was drilled to a depth of 40-feet BGS inside of the battery to vertically delineate chloride impacts.
- July 8, 2016, another soil boring was drilled to reassess the vertical extent of chloride impacts due to the age of the data from the initial boring.
- September 9, 2016, remediation of the site began in accordance with NMOCD and BLM approved scope of work.
- The area inside of the battery surrounding the tanks and other infrastructure was hand excavated to a depth of 2-feet BGS.
- The area in the vicinity of sample location S-4 was excavated to a depth of 4-feet BGS and confirmation samples were taken from the sidewalls and analyzed for TPH and BTEX per NMOCD stipulations.
- The area in the vicinity of sample location S-5 was excavated to a depth of 5-feet BGS. Confirmation samples were taken from the sidewalls and field titrated for chlorides per NMOCD stipulations.
- All of the excavated material was hauled to a NMOCD approved solid waste disposal facility.
- After reviewing the data from the confirmation sampling events NMOCD and BLM approved backfilling the excavation.
- The excavation was backfilled with caliche and contoured to match the surrounding location.
- In addition to the remediation activities, the location was downsized to the minimum size necessary for operation per a previous BLM request. The downsized area was seeded with BLM #2 seed mixture. A seed label is included in [Appendix IV](#).

Closure


On behalf of Dakota Resources, Inc. we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE


Sheldon Hitchcock
Project Manager


David J. Adkins
District Manager

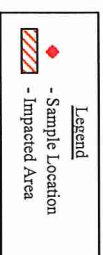
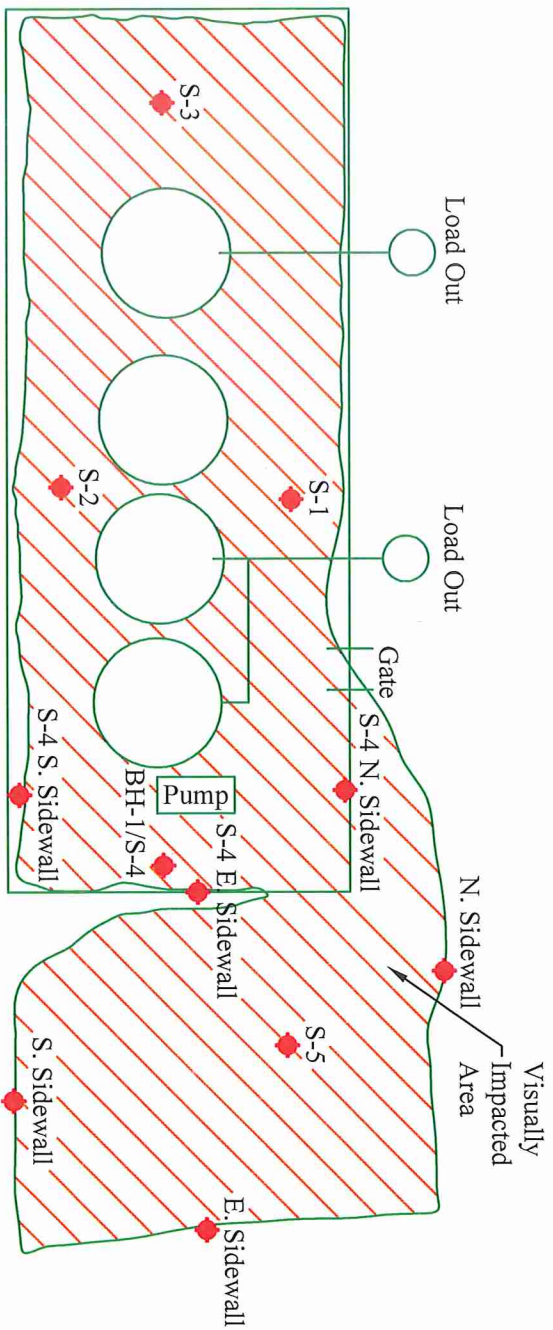
Attachments

Appendix I Site Plan
Appendix II Groundwater Data
Appendix III Initial & Final C-141
Appendix IV Seed Label
Appendix V Laboratory Results

APPENDIX I

SITE PLAN

Well Head
⊗



Date: 09/27/2016

Scale: NTS

Drawn By: TJS

Trigg Fed Battery
Dakota Resources, Inc.
Eddy County, New Mexico
Figure 1 - Site Plan

APPENDIX II

GROUNDWATER DATA



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03272 POD1	CUB	ED		4	3	1	18	21S	28E	581632	3594114*	1307	22	9	13
C 03268 POD1	CUB	ED		4	2	4	01	21S	27E	581201	3596915	1532	48	13	35
C 03864 POD1	CUB	ED		2	4	4	13	21S	27E	581218	3593472	1968	160	45	115
C 02992	C	ED		3	3	2	01	21S	27E	580594	3597311*	2109	250	186	64

Average Depth to Water: **63 feet**

Minimum Depth: **9 feet**

Maximum Depth: **186 feet**

Record Count: 4

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 581522

Northing (Y): 3595417

Radius: 2150

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

APPENDIX III
INITIAL & FINAL C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NJMW1322455789

OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company Dakota Resources 3691		Contact LaWayne Day	
Address 4914 N. Midkiff Midland TX. 79705		Telephone No. 432-697-3420	
Facility Name Federal Trigg #1		Facility Type SWD	
Surface Owner BLM		Mineral Owner BLM	
		API No. 3001525006	

LOCATION OF RELEASE

Unit Letter L	Section 7	Township 215	Range 28E	Feet from the 1980	North/South Line South	Feet from the 660	East/West Line West	County Eddy
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Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 40	Volume Recovered 0
Source of Release Hole in water tank	Date and Hour of Occurrence	Date and Hour of Discovery 8/6/13 9a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM OCD to Randy Day 8/8/2013	
By Whom? J.D.Machacek	Date and Hour 8/6/2013 (11:00 a.m.)	
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.*

Had hole in 500 bbl. tank that we pumped out of to injection well. Water and some skim oil leaked out into berm to front side of tank some leaking out at low spot at gate area on to location pad.

Describe Area Affected and Cleanup Action Taken.*

Everything was soaked in dirt by morning. Will get backhoe and crew to pick up A.S.A.P.

RECEIVED

AUG 12 2013

NMOCD ARTESIA

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.

OIL CONSERVATION DIVISION

Signature: <i>LaWayne Day</i>	Approved by Environmental Specialist By <i>Mike Brannon</i>	
Printed Name: LaWayne Day	Approval Date: AUG 12 2013 Expiration Date:	
Title: Production Foreman	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION	
E-mail Address: lawayned@dakotares.com	Attached <input type="checkbox"/>	
Date: 08/08/2013 Phone: 432-413-3185	PROPOSAL NO LATER THAN: September 12, 2013	

* Attach Additional Sheets If Necessary

2RP-1814

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Dakota Resources Inc.	Contact: Chris Morphew
Address: 4912 N Midkiff Rd. Midland, TX 79705	Telephone No. 432-697-3420
Facility Name: Trigg Federal #001	Facility Type: SWD

Surface Owner: BLM	Mineral Owner: Federal	API No. 30-015-25006
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LOCATION OF RELEASE

Unit Letter L	Section 7	Township 21S	Range 28E	Feet from the 1980	North/South Line South	Feet from the 660	East/West Line West	County Eddy
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Latitude 32.493084 Longitude -104.1323318

NATURE OF RELEASE

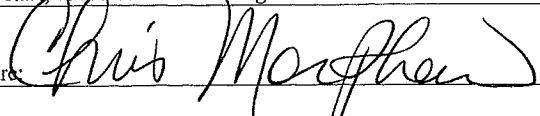
Type of Release: Mixed Fluids	Volume of Release: 40bbls	Volume Recovered: 0
Source of Release: Storage Tank	Date and Hour of Occurrence: 8/6/2013	Date and Hour of Discovery: 8/6/2013 9:00am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Randy Dade-NMOCD	
By Whom? LaWayne Day	Date and Hour: 8/6/2013 11:00am	
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.*
A storage tank within the bermed tank battery leaked resulting in the release of 40bbls of mixed fluids. Talon/LPE was contracted to perform soil sampling within the impacted area and draft a remediation work plan.

Describe Area Affected and Cleanup Action Taken.*
The release impacted the bermed tank battery, breached the berms and flowed southeast across the location for approximately 60-feet. No fluid left the location. Talon/LPE conducted soil sampling and developed scope of work that was approved by BLM and NMOCD. The remediation was carried out in accordance with the approved scope of work. All of the excavated soil was hauled to an NMOCD approved solid waste disposal facility. The excavation was backfilled with caliche and contoured to match the surrounding terrain following NMOCD and BLM permission to backfill the excavation.

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: Chris Morphew	Approved by Environmental Specialist:		
Title: President/CEO	Approval Date:	Expiration Date:	
E-mail Address: chrism@dakotares.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10/28/2016	Phone: 432-697-3420		

* Attach Additional Sheets If Necessary

APPENDIX IV

SEED LABEL

Curtis and Curtis, Inc.

4500 North Prince
Clovis, NM 88101
Phone: (575) 762-4759
www.curtisseed.com

X.L.

10/25/16

Talon / LPE, LTD

1/2 Acre BLM #2, Broadcast Rate
1 - 1/2 Acre Bag @ 39.40 Bulk Pounds
Job #701729,002.01 Trigg Fed #1 SWD

Lot# M-14034

Item	Origin	Purity	Germ	Dormant	Total Germination	Test Date	Total PLS Pounds
Sand Dropseed VNS	New Mexico	5.24%	14.00%	83.00%	97.00%	08/16	2.00
Sand Bluestem Woodward	Texas	13.36%	95.00%	0.00%	95.00%	03/16	5.00
Little Bluestem Cimarron	Texas	12.95%	88.00%	10.00%	98.00%	05/16	5.00
Coreopsis Plains	Oregon	5.77%	88.00%	0.00%	88.00%	09/16	2.00
Plains Bristlegrass VNS	Texas	16.92%	2.00%	88.00%	90.00%	05/16	6.00
Sideoats Grama El Reno	Texas	16.73%	72.00%	19.00%	91.00%	08/16	6.00
Other Crop:	6.10%	There Are 1 Bags For This Mix			Total Bulk Pounds:		39
Weed Seed:	0.55%	This Bag Weighs 39.40 Bulk Pounds					
Inert Matter:	22.38%	Use This Bag For 1/2 Acres					

APPENDIX V

LABORATORY RESULTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 26, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TRIGG FED #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 11/20/13 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Snyder

Organic Supervisor

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-1 0' (H302832-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2013	ND	2.30	115	2.00	3.57	
Toluene*	<0.050	0.050	11/22/2013	ND	2.32	116	2.00	2.68	
Ethylbenzene*	<0.050	0.050	11/22/2013	ND	2.35	118	2.00	2.65	
Total Xylenes*	<0.150	0.150	11/22/2013	ND	6.95	116	6.00	2.08	
Total BTEX	<0.300	0.300	11/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	11/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	11/22/2013	ND	193	96.3	200	0.0809		
DRO >C10-C28	622	100	11/22/2013	ND	193	96.6	200	1.66		

Surrogate: 1-Chlorooctane 93.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 198 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-1 1' (H302832-02)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2013	ND	2.30	115	2.00	3.57		
Toluene*	<0.050	0.050	11/22/2013	ND	2.32	116	2.00	2.68		
Ethylbenzene*	<0.050	0.050	11/22/2013	ND	2.35	118	2.00	2.65		
Total Xylenes*	<0.150	0.150	11/22/2013	ND	6.95	116	6.00	2.08		
Total BTEX	<0.300	0.300	11/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	11/21/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	11/22/2013	ND	193	96.3	200	0.0809		
DRO >C10-C28	280	50.0	11/22/2013	ND	193	96.6	200	1.66		

Surrogate: 1-Chlorooctane 94.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 141 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Mike Snyder, Organic Supervisor

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-1 2' (H302832-03)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2013	ND	2.30	115	2.00	3.57	
Toluene*	<0.050	0.050	11/22/2013	ND	2.32	116	2.00	2.68	
Ethylbenzene*	<0.050	0.050	11/22/2013	ND	2.35	118	2.00	2.65	
Total Xylenes*	<0.150	0.150	11/22/2013	ND	6.95	116	6.00	2.08	
Total BTEX	<0.300	0.300	11/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	11/21/2013	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	48.7	10.0	11/22/2013	ND	193	96.6	200	1.66	

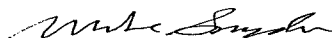
Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-1 3' (H302832-04)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2013	ND	2.30	115	2.00	3.57	
Toluene*	<0.050	0.050	11/22/2013	ND	2.32	116	2.00	2.68	
Ethylbenzene*	<0.050	0.050	11/22/2013	ND	2.35	118	2.00	2.65	
Total Xylenes*	<0.150	0.150	11/22/2013	ND	6.95	116	6.00	2.08	
Total BTEX	<0.300	0.300	11/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	11/21/2013	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	<10.0	10.0	11/22/2013	ND	193	96.6	200	1.66	

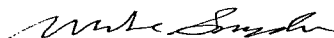
Surrogate: 1-Chlorooctane 84.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.7 % 63.6-154

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Analytical Results For:

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 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-1 4' (H302832-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2013	ND	2.30	115	2.00	3.57	
Toluene*	<0.050	0.050	11/22/2013	ND	2.32	116	2.00	2.68	
Ethylbenzene*	<0.050	0.050	11/22/2013	ND	2.35	118	2.00	2.65	
Total Xylenes*	<0.150	0.150	11/22/2013	ND	6.95	116	6.00	2.08	
Total BTEX	<0.300	0.300	11/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	11/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	10.9	10.0	11/22/2013	ND	193	96.6	200	1.66	

Surrogate: 1-Chlorooctane 90.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.9 % 63.6-154

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 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-2 0' (H302832-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/22/2013	ND	2.30	115	2.00	3.57	
Toluene*	<0.200	0.200	11/22/2013	ND	2.32	116	2.00	2.68	
Ethylbenzene*	<0.200	0.200	11/22/2013	ND	2.35	118	2.00	2.65	
Total Xylenes*	<0.600	0.600	11/22/2013	ND	6.95	116	6.00	2.08	
Total BTEX	<1.20	1.20	11/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	11/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	15900	200	11/22/2013	ND	193	96.6	200	1.66	

Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 423 % 63.6-154

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 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-2 1' (H302832-07)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2013	ND	2.30	115	2.00	3.57	
Toluene*	<0.050	0.050	11/22/2013	ND	2.32	116	2.00	2.68	
Ethylbenzene*	<0.050	0.050	11/22/2013	ND	2.35	118	2.00	2.65	
Total Xylenes*	<0.150	0.150	11/22/2013	ND	6.95	116	6.00	2.08	
Total BTEX	<0.300	0.300	11/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 117 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	11/21/2013	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	1000	200	11/22/2013	ND	193	96.6	200	1.66	


Surrogate: 1-Chlorooctane 98.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 134 % 63.6-154

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 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-2 2' (H302832-08)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2013	ND	2.30	115	2.00	3.57	
Toluene*	<0.050	0.050	11/22/2013	ND	2.32	116	2.00	2.68	
Ethylbenzene*	<0.050	0.050	11/22/2013	ND	2.35	118	2.00	2.65	
Total Xylenes*	<0.150	0.150	11/22/2013	ND	6.95	116	6.00	2.08	
Total BTEX	<0.300	0.300	11/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	11/21/2013	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	839	200	11/22/2013	ND	193	96.6	200	1.66	

Surrogate: 1-Chlorooctane 96.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

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Analytical Results For:

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 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-2 3' (H302832-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2013	ND	2.30	115	2.00	3.57	
Toluene*	<0.050	0.050	11/22/2013	ND	2.32	116	2.00	2.68	
Ethylbenzene*	<0.050	0.050	11/22/2013	ND	2.35	118	2.00	2.65	
Total Xylenes*	<0.150	0.150	11/22/2013	ND	6.95	116	6.00	2.08	
Total BTEX	<0.300	0.300	11/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5760	16.0	11/21/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	3830	200	11/22/2013	ND	193	96.6	200	1.66	


Surrogate: 1-Chlorooctane 90.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 207 % 63.6-154

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Analytical Results For:

 TALON LPE
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 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-2 4' (H302832-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2013	ND	1.94	96.9	2.00	3.54		
Toluene*	<0.050	0.050	11/23/2013	ND	1.96	97.8	2.00	2.36		
Ethylbenzene*	<0.050	0.050	11/23/2013	ND	1.96	98.1	2.00	1.95		
Total Xylenes*	<0.150	0.150	11/23/2013	ND	5.88	98.0	6.00	0.607		
Total BTEX	<0.300	0.300	11/23/2013	ND						

Surrogate: 4-Bromofluorobenzene (PDE) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	11/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	1730	100	11/22/2013	ND	193	96.6	200	1.66	

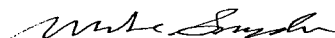
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 133 % 63.6-154

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Analytical Results For:

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 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-3 0' (H302832-11)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	<0.200	0.200	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	<0.200	0.200	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	<0.600	0.600	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTEX	<1.20	1.20	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	11/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	10100	200	11/22/2013	ND	193	96.6	200	1.66	

Surrogate: 1-Chlorooctane 86.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 292 % 63.6-154

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Analytical Results For:

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 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-3 1' (H302832-12)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	<0.200	0.200	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	0.389	0.200	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	<0.600	0.600	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTX	<1.20	1.20	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9120	16.0	11/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	4300	200	11/22/2013	ND	193	96.6	200	1.66	

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 170 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-3 2' (H302832-13)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	<0.050	0.050	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	<0.050	0.050	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTEX	<0.300	0.300	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	11/25/2013	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	27.1	10.0	11/22/2013	ND	193	96.6	200	1.66	

Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.5 % 63.6-154

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Analytical Results For:

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 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-3 3' (H302832-14)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	<0.050	0.050	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	<0.050	0.050	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTEX	<0.300	0.300	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	11/25/2013	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	<10.0	10.0	11/22/2013	ND	193	96.6	200	1.66	


Surrogate: 1-Chlorooctane 91.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.8 % 63.6-154

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Received: 11/20/2013
Reported: 11/26/2013
Project Name: TRIGG FED #1 SWD
Project Number: 701729.001.01
Project Location: DAKOTA RESOURCES

Sampling Date: 11/19/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 4' (H302832-15)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	<0.050	0.050	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	<0.050	0.050	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTEX	<0.300	0.300	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7920	16.0	11/25/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	40.7	10.0	11/22/2013	ND	193	96.6	200	1.66	

Surrogate: 1-Chlorooctane 91.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.8 % 63.6-154

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 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-4 0' (H302832-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	0.285	0.200	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	0.447	0.200	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	0.601	0.600	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTEX	<1.20	1.20	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	11/25/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<200	200	11/22/2013	ND	193	96.3	200	0.0809		
DRO >C10-C28	9180	200	11/22/2013	ND	193	96.6	200	1.66		

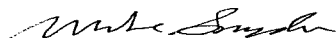
Surrogate: 1-Chlorooctane 97.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 284 % 63.6-154

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Analytical Results For:

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 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-4 1' (H302832-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	11.4	5.00	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	12.5	5.00	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	141	15.0	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTEX	165	30.0	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13900	16.0	11/25/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4780	100	11/22/2013	ND	193	96.3	200	0.0809		
DRO >C10-C28	11800	100	11/22/2013	ND	193	96.6	200	1.66		


Surrogate: 1-Chlorooctane 216 % 65.2-140

Surrogate: 1-Chlorooctadecane 228 % 63.6-154

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Analytical Results For:

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-4 2' REFUSAL (H302832-18)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	8.42	2.00	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	12.2	2.00	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	119	6.00	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTX	141	12.0	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 140 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	11/25/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3140	50.0	11/22/2013	ND	193	96.3	200	0.0809	
DRO >C10-C28	7020	50.0	11/22/2013	ND	193	96.6	200	1.66	


Surrogate: 1-Chlorooctane 187 % 65.2-140

Surrogate: 1-Chlorooctadecane 175 % 63.6-154

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Analytical Results For:

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 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-5 0' (H302832-19)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	<0.050	0.050	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	<0.050	0.050	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTEX	<0.300	0.300	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	11/25/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2013	ND	205	102	200	1.20	
DRO >C10-C28	<10.0	10.0	11/22/2013	ND	205	103	200	2.92	


Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Analytical Results For:

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 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-5 1' (H302832-20)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	<0.050	0.050	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	<0.050	0.050	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTEX	<0.300	0.300	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	11/25/2013	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2013	ND	205	102	200	1.20	
DRO >C10-C28	<10.0	10.0	11/22/2013	ND	205	103	200	2.92	

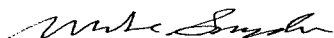
Surrogate: 1-Chlorooctane 95.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.9 % 63.6-154

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Analytical Results For:

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 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-5 2' (H302832-21)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	<0.050	0.050	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	<0.050	0.050	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTEX	<0.300	0.300	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	11/25/2013	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2013	ND	205	102	200	1.20	
DRO >C10-C28	<10.0	10.0	11/22/2013	ND	205	103	200	2.92	

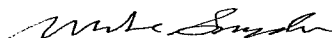
Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-5 3' (H302832-22)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	<0.050	0.050	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	<0.050	0.050	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTEX	<0.300	0.300	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	11/25/2013	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2013	ND	205	102	200	1.20	
DRO >C10-C28	<10.0	10.0	11/22/2013	ND	205	103	200	2.92	

Surrogate: 1-Chlorooctane 94.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 11/20/2013
 Reported: 11/26/2013
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 11/19/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-5 4' (H302832-23)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2013	ND	1.94	96.9	2.00	3.54	
Toluene*	<0.050	0.050	11/23/2013	ND	1.96	97.8	2.00	2.36	
Ethylbenzene*	<0.050	0.050	11/23/2013	ND	1.96	98.1	2.00	1.95	
Total Xylenes*	<0.150	0.150	11/23/2013	ND	5.88	98.0	6.00	0.607	
Total BTEX	<0.300	0.300	11/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	11/25/2013	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/22/2013	ND	205	102	200	1.20	
DRO >C10-C28	<10.0	10.0	11/22/2013	ND	205	103	200	2.92	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Mike Snyder, Organic Supervisor

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder, Organic Supervisor



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST

BILL TO

Company Name: Talon/LPE

Project Manager: David Perkins

Address: 408 W. Texas Ave

City: Alameda

Phone #: 575-746-8768

Project #: 701729.001.01

Project Name: Trigg Fed #1 SWD

Project Location:

Sampler Name: Sheldon Hitchcock

FOR LAB USE ONLY

P.O. #:

Company: Talon/LPE

Attn:

Address:

State:

Phone #:

Zip:

Fax #:

Matrix

Preserv

Sampling

Lab I.D.

Sample I.D.

H302832

1

2

3

4

5

6

7

8

9

10

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chlorides

TPH

BTEX

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4.26

54

54

54

Sample Condition

Cool / Intact

Yes / No

Yes / No

Yes / No

Yes / No

CHECKED BY:

(Signature)

(Signature)

(Signature)

(Signature)

(Signature)

Phone Result:

Fax Result:

Yes / No

Yes / No

Yes / No

Yes / No

REMARKS:

REMARKS:

REMARKS:

REMARKS:

REMARKS:

REMARKS:



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

ANALYSIS REQUEST

Company Name: TALON L.P.E.

Project Manager: David Adkins

Address: 408 W. Texas Ave

City: Albuquerque State: NM Zip: 88210

Phone #: 505-746-8768 Fax #: 505-746-8905

Project #: 70172920101 Project Owner: Dakota Resource

Project Name: Tri-99 Fed #1 5020

Project Location:

Sample Name: Sheldon Leitchcock

FOR LAB USE ONLY

Lab ID:

Sample ID:

Lab ID:

11

12

13

14

15

16

17

18

19

20

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

11/19/13

11:32

11/19/13

11:41

11/19/13

11:43

11/19/13

11:44

11/19/13

11:47

11/19/13

11:52

11/19/13

11:55

11/19/13

12:04

11/19/13

12:13

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11/19/13

12:13

11/19/13

12:13

11/19/13

12:13

11/19/13

12:13

11/19/13

12:13

Chlorides

TPH

BTEX

Relinquished By:

Sheldon Adkins

Date:

11/19/13

Time:

4:20

Sample Condition

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#54

Received By:

Sheldon Adkins

Date:

11/19/13

Time:

4:20

Sample Condition

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#54

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Remarks:

1

1

1

1

1

1

1



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST

BILL TO

Company Name: Talon/LPE

Project Manager: David Adkins

Address: 408 W. Texas Ave

City: Alameda State: NM Zip: 88210

Phone #: 575-746-8768 Fax #: 575-746-8905

Project #: 701729.001.01 Project Owner: Archie Leavins

Project Name: Tri-9 Fed #1 5020

Project Location:

Sampler Name: Sheldon Hitchcock

FOR LAB USE ONLY

P.O. #:

Company: Talon/LPE

Attn:

Address:

State: Zip:

Phone #: Fax #:

Matrix

Preserv

Sampling

Lab ID. Sample ID.

H302332

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:
ACID/BASE:
ICE / COOL
OTHER:

DATE TIME

Chlorides
TPH
BTEX

21 3-5 2'
22 3-5 3'
23 3-5 4'

6 6 6
1 1 1
1 1 1
11-19-13 12:15
11-19-13 2:17
11-19-13 12:21

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Relinquished By: Sheldon Hitchcock

Date: 11/20/13 Time: 8:00

Received By: Sheldon Hitchcock

Date: 11/20/13 Time: 8:00

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4.2C Cool Intact
Yes Yes
No No

CHECKED BY: Sheldon Hitchcock

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

* Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 26, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TRIGG FED #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/23/14 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 06/23/2014
 Reported: 06/26/2014
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 06/19/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH-1 5' (H401875-01)

BTEX 8021B		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2014	ND	1.84	91.8	2.00	9.34	
Toluene*	0.176	0.050	06/25/2014	ND	1.99	99.5	2.00	6.67	
Ethylbenzene*	0.694	0.050	06/25/2014	ND	1.80	89.9	2.00	5.53	
Total Xylenes*	2.59	0.150	06/25/2014	ND	5.59	93.1	6.00	3.83	
Total BTEX	3.46	0.300	06/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 208 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	06/24/2014	ND	416	104	400	8.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	54.3	10.0	06/24/2014	ND	164	82.0	200	2.21	
DRO >C10-C28	518	10.0	06/24/2014	ND	184	92.0	200	3.27	

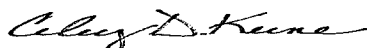
Surrogate: 1-Chlorooctane 69.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 69.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 06/23/2014
Reported: 06/26/2014
Project Name: TRIGG FED #1 SWD
Project Number: 701729.001.01
Project Location: DAKOTA RESOURCES

Sampling Date: 06/19/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BH-1 10' (H401875-02)

BTEX 8021B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2014	ND	1.84	91.8	2.00	9.34		
Toluene*	<0.050	0.050	06/25/2014	ND	1.99	99.5	2.00	6.67		
Ethylbenzene*	<0.050	0.050	06/25/2014	ND	1.80	89.9	2.00	5.53		
Total Xylenes*	<0.150	0.150	06/25/2014	ND	5.59	93.1	6.00	3.83		
Total BTEX	<0.300	0.300	06/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	06/24/2014	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/24/2014	ND	164	82.0	200	2.21	
DRO >C10-C28	<10.0	10.0	06/24/2014	ND	184	92.0	200	3.27	

Surrogate: 1-Chlorooctane 87.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.7 % 63.6-154

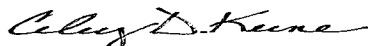
Sample ID: BH-1 15' (H401875-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	06/24/2014	ND	416	104	400	8.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received: 06/23/2014
 Reported: 06/26/2014
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

Sampling Date: 06/19/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH-1 20' (H401875-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	06/24/2014	ND	416	104	400	8.00	

Sample ID: BH-1 25' (H401875-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	06/24/2014	ND	416	104	400	8.00	

Sample ID: BH-1 30' (H401875-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	06/24/2014	ND	416	104	400	8.00		

Sample ID: BH-1 35' (H401875-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	06/24/2014	ND	416	104	400	8.00		

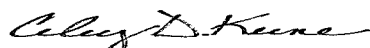
Sample ID: BH-1 40' (H401875-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	06/24/2014	ND	416	104	400	8.00		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

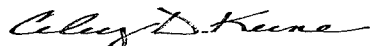
Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

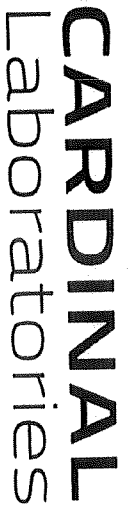
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Celey D. Keene, Lab Director/Quality Manager



Page 6 of 6

ANALYSIS REQUEST[illegible]

FOR LAB USE ONLY		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX						PRESERV.		DATE		TIME		TPH		BTEX		Chlorides	
Lab I.D.								GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :									
H4D1875		BH-1	5'	G-1	1	/	/	/	/	/	/	/	/	/	/	/	6/19/14	12:35	/	/	/				
		BH-1	10'	G-1	1	/	/	/	/	/	/	/	/	/	/	/		12:45	/	/	/				
		BH-1	15'	G-1	1	/	/	/	/	/	/	/	/	/	/	/		12:47	/	/	/				
		BH-1	20'	G-1	1	/	/	/	/	/	/	/	/	/	/	/		12:55	/	/	/				
		BH-1	25'	G-1	1	/	/	/	/	/	/	/	/	/	/	/		1:05	/	/	/				
		BH-1	30'	G-1	1	/	/	/	/	/	/	/	/	/	/	/		1:16	/	/	/				
		BH-1	35'	G-1	1	/	/	/	/	/	/	/	/	/	/	/		1:30	/	/	/				
		BH-1	40'	G-1	1	/	/	/	/	/	/	/	/	/	/	/		1:50	/	/	/				

Phone Result:			<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Fax Result:			<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
REMARKS:					

<small>affiliates or successors shall not be liable for incident or consequential damages, including any loss of profits, arising out of or related to the performance of services hereunder by the undersigned, in no event shall Cardinal be liable for incident or consequential damages, including any loss of profits, arising out of or related to the performance of services hereunder by the undersigned, in no event shall Cardinal be liable for incident or consequential damages, including any loss of profits, arising out of or related to the performance of services hereunder by the undersigned.</small>			
Relinquished By: <i>Shelday Pittman</i>		Received By: <i>Greg</i>	
Date: _____		Date: _____	
Time: _____		Time: _____	
Relinquished By: <i>[Signature]</i>		Received By: <i>Shelli Henderson</i>	
Time: <i>12:00</i>		Time: _____	
Delivered By: (Circle One) _____		Sample Condition Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Sampler Type: Bus - Other: _____		CHECKED BY: <i>[Signature]</i>	
REMARKS: _____ _____ _____			
Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #: _____	
Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #: _____	

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 395-2326



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

July 14, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TRIGG FED #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/08/16 11:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 SHELDON HITCHCOCK
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 07/08/2016
 Reported: 07/14/2016
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.002.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 07/08/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BH-1 10' (H601539-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2016	ND	1.85	92.6	2.00	2.46	
Toluene*	<0.050	0.050	07/12/2016	ND	1.96	98.1	2.00	1.84	
Ethylbenzene*	<0.050	0.050	07/12/2016	ND	1.89	94.6	2.00	2.47	
Total Xylenes*	<0.150	0.150	07/12/2016	ND	5.71	95.2	6.00	1.70	
Total BTEX	<0.300	0.300	07/12/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	07/11/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/12/2016	ND	173	86.7	200	2.02	
DRO >C10-C28	34.1	10.0	07/12/2016	ND	177	88.5	200	1.15	

Surrogate: 1-Chlorooctane 81.9 % 35-147

Surrogate: 1-Chlorooctadecane 83.8 % 28-171

Sample ID: BH-40' (H601539-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/11/2016	ND	400	100	400	3.92	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 07/08/2016
Reported: 07/14/2016
Project Name: TRIGG FED #1 SWD
Project Number: 701729.002.01
Project Location: DAKOTA RESOURCES

Sampling Date: 07/08/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

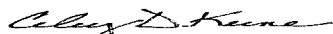
Sample ID: BH-50' (H601539-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/11/2016	ND	400	100	400	3.92	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

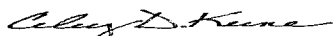
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

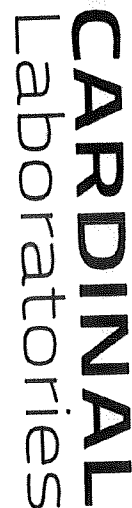
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Talon/LPE

Project Manager: S. Hinchcock

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 701729.002.01

Project Name: T-195 Fed #1 SWD

Project Location:

Sampler Name: S. Hinchcock

FOR LAB USE ONLY

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State: NM **Zip:** 88210

Phone #:

Fax #:

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Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	TPH	BTEx	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:							
1	BH-1 10'	G	1										7/21/6	9:00	/	/	/
2	BH-1 40'	G	1											9:30	/	/	/
3	BH-1 50'	G	1											9:40	/	/	/

Relinquished By: [Signature] **Received By:** [Signature]

Date: 7/21/6 **Time:** 11:40

Relinquished By: [Signature] **Received By:** [Signature]

Date: [] **Time:** []

Delivered By: (Circle One) **Sample Condition:** Cool ☒ Intact ☐ **Checked By:** [Signature]

Sampler - UPS - Bus - Other: **Price:** \$2.50 **Yes** ☒ **No** ☐ **Phone #:** [] **Fax #:** []

REMARKS:

BILL TO

ANALYSIS REQUEST



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

September 27, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TRIGG FED #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 09/26/16 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 SHELDON HITCHCOCK
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 09/26/2016
 Reported: 09/27/2016
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.002.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 09/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 N. SIDEWALL (H602152-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTX	<0.300	0.300	09/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/26/2016	ND	193	96.3	200	6.67	
DRO >C10-C28	3390	10.0	09/26/2016	ND	201	101	200	7.21	

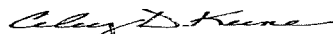
Surrogate: 1-Chlorooctane 87.6 % 35-147

Surrogate: 1-Chlorooctadecane 167 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 SHELDON HITCHCOCK
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 09/26/2016
 Reported: 09/27/2016
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.002.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 09/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 S. SIDEWALL (H602152-02)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTX	<0.300	0.300	09/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2016	ND	193	96.3	200	6.67	
DRO >C10-C28	35.8	10.0	09/27/2016	ND	201	101	200	7.21	

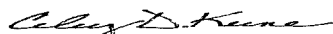
Surrogate: 1-Chlorooctane 85.3 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 09/26/2016
Reported: 09/27/2016
Project Name: TRIGG FED #1 SWD
Project Number: 701729.002.01
Project Location: DAKOTA RESOURCES

Sampling Date: 09/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 E. SIDEWALL (H602152-03)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00		
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60		
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58		
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14		
Total BTX	<0.300	0.300	09/26/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/27/2016	ND	193	96.3	200	6.67	
DRO >C10-C28	256	10.0	09/27/2016	ND	201	101	200	7.21	

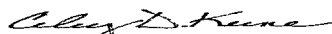
Surrogate: 1-Chlorooctane 91.0 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

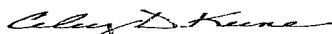
Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 11, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TRIGG FED #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/11/16 10:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 SHELDON HITCHCOCK
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 10/11/2016
 Reported: 10/11/2016
 Project Name: TRIGG FED #1 SWD
 Project Number: 701729.001.01
 Project Location: DAKOTA RESOURCES

 Sampling Date: 10/11/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NORTH SIDE WALL (H602283-01)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2016	ND	2.18	109	2.00	1.38		
Toluene*	<0.050	0.050	10/11/2016	ND	2.27	114	2.00	1.12		
Ethylbenzene*	<0.050	0.050	10/11/2016	ND	2.21	110	2.00	1.03		
Total Xylenes*	<0.150	0.150	10/11/2016	ND	6.66	111	6.00	0.694		
Total BTEX	<0.300	0.300	10/11/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.1 % 73.6-140

TPH 8015M			mg/kg							Analyzed By: CK	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	10/11/2016	ND	182	91.2	200	12.5			
DRO >C10-C28	<10.0	10.0	10/11/2016	ND	192	96.1	200	7.27			

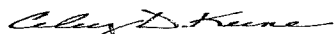
Surrogate: 1-Chlorooctane 95.1 % 35-147

Surrogate: 1-Chlorooctadecane 99.9 % 28-171

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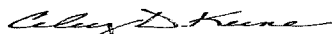
Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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