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 April 3, 2017

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

Release Notification and Corrective Action

	OPERATOR	x Initial Report	Final Report
Name of Company Energen Resources Corporation	Contact Andy Cobb	· · · · · ·	
Address 3510 N A Street, Midland, TX 79705	Telephone No. 432-686-359	99	
Facility Name State B	Facility Type Oil and Gas Pro	duction Facility	

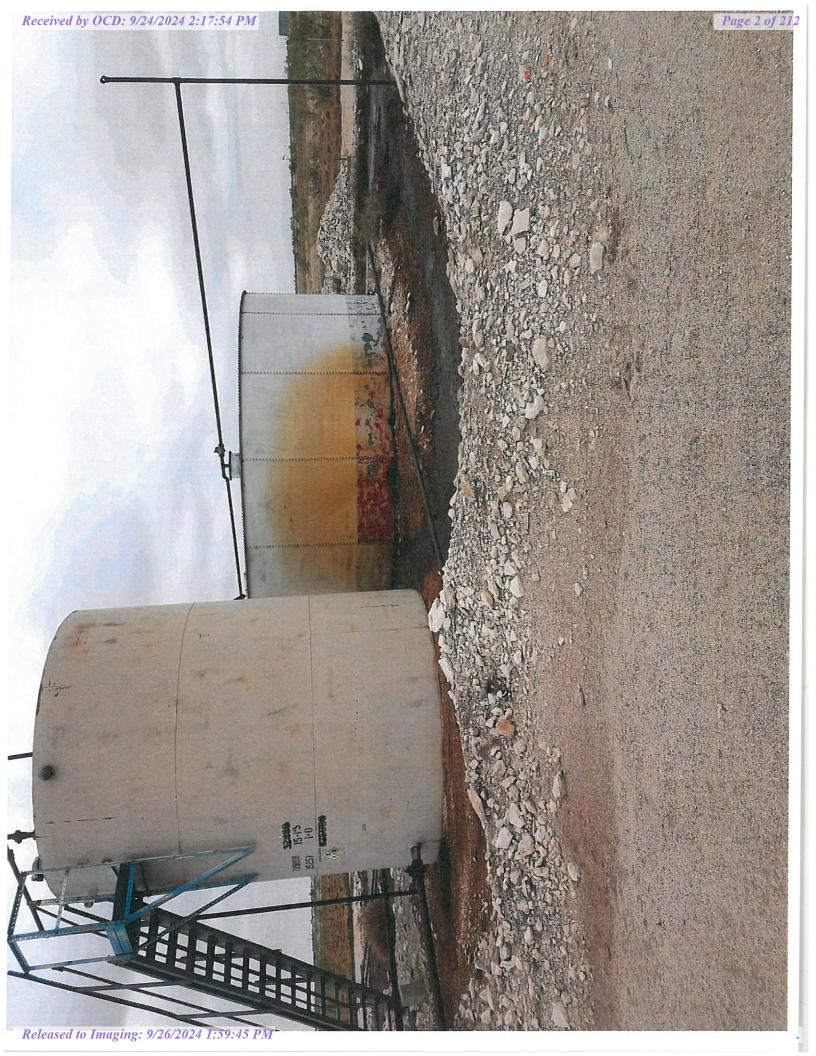
Surface Owner Dan Field/Branch Ranch Mineral Owner State of New Mexico API No. 3002502709

LOCATION OF RELEASE									
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
J	1	16S	35E	4610	FSL	2301	FEL	LEA	

Latitude 32.9565239 Longitude -103.4101334 NAD83

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 136 barrels Volume Recovered 0
Source of Release Oil Tank	Date and Hour of Occurrence 5/22/18 Date and Hour of Discovery 6/1/18
Was Immediate Notice Given?	If YES, To Whom?
Yes X No Not Required	
By Whom?	Date and Hour
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
🗌 Yes 🕱 No	
If a Watercourse was Impacted, Describe Fully.*	
	RECEIVED
	By CHernandez at 2:31 pm, Jun 04, 2018
Describe Cause of Problem and Remedial Action Taken.*	
Corrosion caused a hole to develop in the oil tank and release fluid. The fluid	d was not immediately discovered.
Describe Area Affected and Cleanup Action Taken.*	
The area inside the berm was affected and remediation will be as soon as pr	acciblo
The cred mode the bern was anceded and remediation will be as soon as p	J221016.
I hereby certify that the information given above is true and complete to the	e best of my knowledge and understand that pursuant to NMOCD rules and
regulations an operators are required to report and/or file certain release no	otifications and perform corrective actions for releases which may endanger 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 do	es not relieve the operator of responsibility for compliance with any other
federal, state, or local laws and/or regulations.	and operated of responsioning for compliance with any other
\land	OIL CONSERVATION DIVISION
Simon Milly (SPR	
Signature: V-Villy 2005	\bigcirc \downarrow
Printed Name: Andy Cobb	Approved by Environmental Specialist:
Title: Director EH&S	Approval Date: 6/4/2018 Expiration Date:
E-mail Address: andy.cobb@energen.com (Conditions of Approval:
	See attached directive
Date: 6/4/2018 Phone: 432-686-3599	
Attach Additional Sheets If Necessary	RP-5082 nCH1815552862
	CH1815554047
91	



Operator/Responsible Party,

The OCD has received the form C-141 you provided on _6/4/2018_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-5082_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _7/4/2018_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us District I 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District Office

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Release Notification

Responsible Party

Responsibly Party	Energen Resources Corporation	OGRID	162928	
Contact Name	Tommy York	Contact Telephone	432-209-2483	
Contact Email	tommy.vork@energen.com	Incident # (assigned by OCD)	1RP-5082	
Contact Mailing Address	3510 N A Street, Midland, TX 797	05		

Location of Release Source

Latitude		32.95652		Longitude	-103.41013	
			(Nad 83 in decimal d	legrees to 5 decimal p	laces)	_
Site Name	State B			Site Type	Tank Battery	
Date Release I	Discovered	06/01/18		API# (if applicable)	30-025-02709	
TT to T						
Unit Letter	Section	Township	Range	County		
"J"	1	16	35	Lea		
Surface Owner	r: 🖸 State	🗆 Federal 🗆 🏾	Tribal Private (Name.	-	State of New Mexico)
			Nature and V	olume of Rele	ase	

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	136	Volume Recovered (bbls)	0
Produced	Water Volume Released (bbls)		Volume Recovered (bbls)	
	Is the concentration of total di produced water >10,000 mg/l	· · ·	the Ves INO	
Condensat	e Volume Released (bbls)		Volume Recovered (bbls)	
Natural Ga	volume Released (Mcf)		Volume Recovered (Mcf)	
Other (des	cribe) Volume/Weight Released (pro	ovide units)	Volume/Weight Recovered (provide units	5)
0 00 1				

Cause of Release

A hole developed in the oil tank as a result of corrosion; the fluid was not immediatedly discovered.

If Y No

State of New Mexico	Incident ID	nCH1815552862	
Oil Conservation Division	District RP	1RP-5082	
	Facility ID	30-025-02709	
	Application ID	pCH1815554047	
	Oil Conservation Division	Facility ID	Facility ID 30-025-02709

release as defined by	Release of greater than 25 bbls.
19.15.29.7(A) NMAC?	
☑ Yes □ No	
	otice given to the OCD? By whom? To whom? When and by what means? (phone, email, etc)?
No	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- 2 The source of the release has been stopped.
- -The impacted area has been secured to protect human health and the environment.
- 1 Release materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately. Ø

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11 (A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name:	Tommy York	Title:	Production Superintendent	
Signature:	commy York _	Date:	12-19-18	
email: <u>tommy.yo</u>	rk@energen.com	Telephone:	432-209-2483	
OCD Only				
Received by:	REVIEWED	Date:		
	By CHernandez at 10:12 ar	n, Jan 16, 2019		

Form C-141	State of New Mexico	Incident ID	nCH1815552862
Page 3	Oil Conservation Division	District RP	1RP-5082
		Facility ID	30-025-02709

 Facility ID
 30-025-02709

 Application ID
 pCH1815554047

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discover date.

	-		
What is the shallowest depth to groundwater beneath the area affected by the release?		63 Ft.	(ft. bgs)
Did this release impact groundwater or surface water?		Yes 🗹	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?		Yes 🗹	No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinarily high-water mark)?		Yes 🗹	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?		Yes 🗹	No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?		Yes 🗹	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?		Yes 🖾	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?		Yes 🗹	No
Are the lateral extents of the release within 300 feet of a wetland?		Yes 🗹	No
Are the lateral extents of the release overlying a subsurface mine?		Yes 🗵	No
Are the lateral extents of the release overlying an unstable area such as karst geology?		Yes 🗹	No
Are the lateral extents of the release within a 100-year floodplain?		Yes 🗹	No
Did the release impact areas not on an exploration, development, production or storage site?		Yes 🗹	No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. Than plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modifies by site- and release-specific parameters.

Form C-141	State of New Mexico	Incident ID	nCH1815552862
Page 4	Oil Conservation Division	District RP	1RP-5082
		Facility ID	30-025-02709
		Application ID	pCH1815554047
regulations all operators are	ormation given above is true and complete to the best of m e required to report and/or file certain release notifications ment. The acceptance of a C-141 report by the OCD does	and perform corrective action	is for releases which may endanger

public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name:	Tommy York	Title:	Production Superintendent	
Signature:	Jammy Yorb	Date:	12-19-18	
email:	tommy.york@energen.com	Telephone:	432-209-2483	
OCD Only	APPROVED			
Received by:	By CHernandez at 10:12 am, J	lan 16, 2019		

Form C-141	State of New Mexico	Incident ID	nCH1815552862
Page 5	Oil Conservation Division	District RP	1RP-5082
		Facility ID	30-025-02709
		Application ID	pCH1815554047

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the report.

Detailed description of proposed remediation technique

- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- □ Extents of contamination must be fully delineated.
- □ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of compliance with any other federal, state, or local laws and/or regulations.

Printed Name:	Tommy York	Title:	Production	Superintendent
Signature:	Jommey York	Date:	12-19-18	
email:	tommy.york@energen.com	Telephone:	432-20	9-2483
OCD Only				
Received by:		Date:		
□ Approved	Approved with Attached Conditions of APPROVED	Approval	□ Denied	Deferral Approved
Signature:	By CHernandez at 10:12 am, Jan	16, 2019		



Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

November 12, 2018

Olivia Yu & Christina Hernandez New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1625 French Drive Hobbs, NM 88240

Ryan Mann Hobbs Field Office New Mexico State Land Office 2827 North Dal Paso Street, Suite 117 Hobbs, NM 88240

Re: Site Assessment Report and Proposed Remediation Plan Site Name: State B GPS: Latitude: 32.95652 Longitude: -103.41013 Legals: UL "J", Sec. 1, T16S, R35E Lea County, New Mexico NMOCD Ref. No. 1RP-5082

Lowry Environmental & Associates, LLC (LEA), on behalf of Energen Resources Corporation, has prepared this Site Assessment Report and Proposed Remediation Plan for the Release Site known as the State B. Details of the release are summarized on the table below:

Nature and Volume of Release				
Date Release Discovered	6/1/2018	Source of Release	Tank Battery	
Type of Release	Crude Oil	Volume Released (bbls)	136	
Type of Release		Volume Recovered (bbls)	None	
Cause of Release				
A hole developed in the oil tar	A hole developed in the oil tank as a result of corrosion; the fluid was not immediatedly discovered.			
Affected Area The release affected and area within an unlined earthen containment.				
Vas this a major release? If YES, for what reasons (s) is this considered a major release?				
Yes Volume Greater than 25 bbls				
If Yes, was immediate notice given to the OCD? By whom? To whom? When and by what means?				
N/A				

A copy of the Release Notification (NMOCD Form C-141) is provided as Attachment #8.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Site Assessment/Characterization		
What is the shallowest depth to groundwater beneath the area affected by the release?	>63'	
Did this release impact groundwater or surface water?	No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	No	
Are the lateral extents of the release within 300 feet of a wetland?	No	
Are the lateral extents of the release overlying a subsurface mine?	No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	No	
Are the lateral extents of the release within a 100-year floodplain?	No	
Did the release impact areas not on an exploration, development, production or storage site?	No	

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey was conducted in an effort to determine the average depth to groundwater within a 1 Mile radius of the Site and identify any registered water wells within a 1/2 Mile radius of the Site. A search of the NMOSE database suggested the presence of 1 water well (L10272) within 1,000 ft. of the Site. A field survey indicated available geographic information for L10272 was outdated and/or incorrect; there was no water well in that vicinity. A search of the USGS database did not identify any water wells within a 1/2 Mile radius.

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release	
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons	2,500 mg/kg
Combined GRO and DRO	1,000 mg/kg
Chloride	10,000 mg/kg

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2. Depth to groundwater information is provided as Attachment #4. A Photographic Log is provided as Attachment #7.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

INITIAL SITE ASSESSMENT

On **July 31, 2018**, two (2) investigative soil bores (SP-1 and SP-2) were advanced at the Site in an effort to determine the vertical extent of impacted soil affected above the NMOCD Closure Criteria. Soil bore SP-1 was advanced to a depth of 30 ft. bgs. During the advancement of the soil bore, 10 soil samples were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria for TPH and chloride beyond 12 ft. bgs in the area represented by soil bore SP-1.

Soil bore SP-2 was advanced to a depth of 63 ft. bgs. During the advancement of the soil bore, 14 soil samples were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria for TPH and chloride beyond 9 ft. bgs in the area represented by soil bore SP-1.

On **November 2, 2018,** four (4) soil samples (North @ 1', East @ 1', South @ 1' and West @ 1') were collected from the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil affected above the NMOCD Closure Criteria. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples, with the exception of soil sample North @ 1', which exhibited a GRO+DRO concentration of 2,311.4 mg/kg and a TPH concentration of 2,793.4 mg/kg. Collection of soil samples from deeper intervals was precluded due to the presence of an impenetrable rock layer.

A table summarizing laboratory analytical results from soil samples collected during the initial site assessment is provided on the following page:

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment(s)											
				SW 846	5 8021B	SW 846 8015M Ext.				E300/4500Cl	
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1 @ Surf.	7/31/18	0-6"	In-Situ	2.79	307	2,530	29,500	<mark>32,030</mark>	3,790	<mark>35,820</mark>	96.0
SP1@3'	7/31/18	3'	In-Situ	-	-	389	4,400	<mark>4,789</mark>	447	<mark>5,236</mark>	1,260
SP1@6'	7/31/18	6'	In-Situ	-	-	1,140	6,980	<mark>8,120</mark>	837	<mark>8,957</mark>	480
SP1@9'	7/31/18	9'	In-Situ	-	-	112	1,490	<mark>1,602</mark>	204	1,806	96.0
SP1 @ 12'	7/31/18	12'	In-Situ	-	-	<10.0	31.0	31.0	<10.0	31.0	48.0
SP1 @ 15'	7/31/18	15'	In-Situ	<0.050	<0.300	<10.0	47.4	47.4	<10.0	47.4	32.0
SP1 @ 18'	7/31/18	18'	In-Situ	-	-	<10.0	21.2	21.2	<10.0	21.2	32.0
SP1 @ 21'	7/31/18	21'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP1 @ 24'	7/31/18	24'	In-Situ	-	-	<10.0	198	198	68.5	266.5	48.0
SP1 @ 27'	7/31/18	27'	In-Situ	-	-	<10.0	309	309	27.8	336.8	48.0
SP1 @ 30'	7/31/18	30'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP2 @ Surf.	7/31/18	0-6"	In-Situ	<1.00	157	877	7,500	<mark>8,377</mark>	601	8 <mark>,978</mark>	800
SP2 @ 3'	7/31/18	3'	In-Situ	-	-	2,680	12,300	<mark>14,980</mark>	1,430	1 <mark>6,41</mark> 0	352
SP2 @ 9'	7/31/18	9'	In-Situ	-	-	33.3	556	589	45.0	634.3	1,410
SP2 @ 15'	7/31/18	15'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,920
SP2 @ 21'	7/31/18	21'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	2,120
SP2 @ 27'	7/31/18	27'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	1,360
SP2 @ 33'	7/31/18	33'	In-Situ	-	-	30.0	388	418	68.8	486.8	1,090
SP2 @ 39'	7/31/18	39'	In-Situ	-	-	<10.0	66.4	66.4	14.8	81.2	720
SP2 @ 45'	7/31/18	45'	In-Situ	<0.050	<0.300	<10.0	29.1	29.1	<10.0	29.1	368
SP2 @ 48'	7/31/18	21'	In-Situ	-	-	<10.0	49.6	49.6	<10.0	49.6	368
SP2 @ 54'	7/31/18	21'	In-Situ	-	-	<10.0	34.5	34.5	<10.0	34.5	256
SP2 @ 57'	7/31/18	57'	In-Situ	-	-	<10.0	50.6	50.6	<10.0	50.6	224
SP2 @ 60'	7/31/18	60'	In-Situ	-	-	<10.0	37.6	37.6	<10.0	37.6	128
SP2 @ 63'	7/31/18	63'	In-Situ	<0.050	<0.300	<10.0	144	144	41.5	185.5	128
East @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	13.4	406	419.4	62.5	481.9	64.0
North @ 1'	11/2/18	1'	In-Situ	<0.050	0.332	11.4	2,300	<mark>2,311.4</mark>	482	<mark>2,793.4</mark>	480
West @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	<10.0	60.1	60.1	36.6	96.7	1,060
South @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	<10.0	195	195	119	314	3,080
	Closure Criteria			10	50	-	-	1,000	-	2,500	10,000

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #5. Laboratory analytical reports are provided as Attachment #6.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Energen Resources Corporation proposes the following remediation activities designed to advance the Site toward an approved closure:

•Utilizing mechanical equipment, excavate impacted soil within the release margins in the area characterized by sample point SP-1 to a depth beyond 9 ft. bgs, until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.

•Excavate impacted soil within the release margins in the area characterized by sample point SP-2 to a depth beyond 3 ft. bgs, until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.

•Excavation sidewalls will be advanced horizontally until laboratory analytical results from confirmation soil samples indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria. This will include the impacted area characterized by soil sample North @ 1'.

• Excavated soil will be temporarily stockpiled on-site, pending transportation under manifest to an NMOCD-approved disposal facility.

• Upon receiving favorable laboratory analytical results from confirmation soil samples (below the NMOCD Closure Criteria) excavated areas will be backfilled with locally sourced, non-impacted "like" material. Excavation backfill will be placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than **50 linear ft**. A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **500 square feet**. Additional, "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of this Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **1,070 cubic yards** of soil has been affected above the NMOCD Closure Criteria.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

If you have any questions, or need any additional information, please feel free to contact Andy Cobb or the undersigned by phone or email.

Respectfully,

Joel W. Lowry Environmental Professional Lowry Environmental & Associates, LLC

Attachments:	Attachment #1-	Figure 1 - Topographic Map
	Attachment #2-	Figure 2 - Aerial Map
	Attachment #3-	Figure 3 - Site & Sample Location Map
	Attachment #4-	Depth to Groundwater Information
	Attachment #5-	Soil Profile
	Attachment #6-	Laboratory Analytical Reports
	Attachment #7-	Photographic Log
	Attachment #8-	Release Notification (FORM C-141)
	Attachment #9-	Field Data

LIMITATIONS

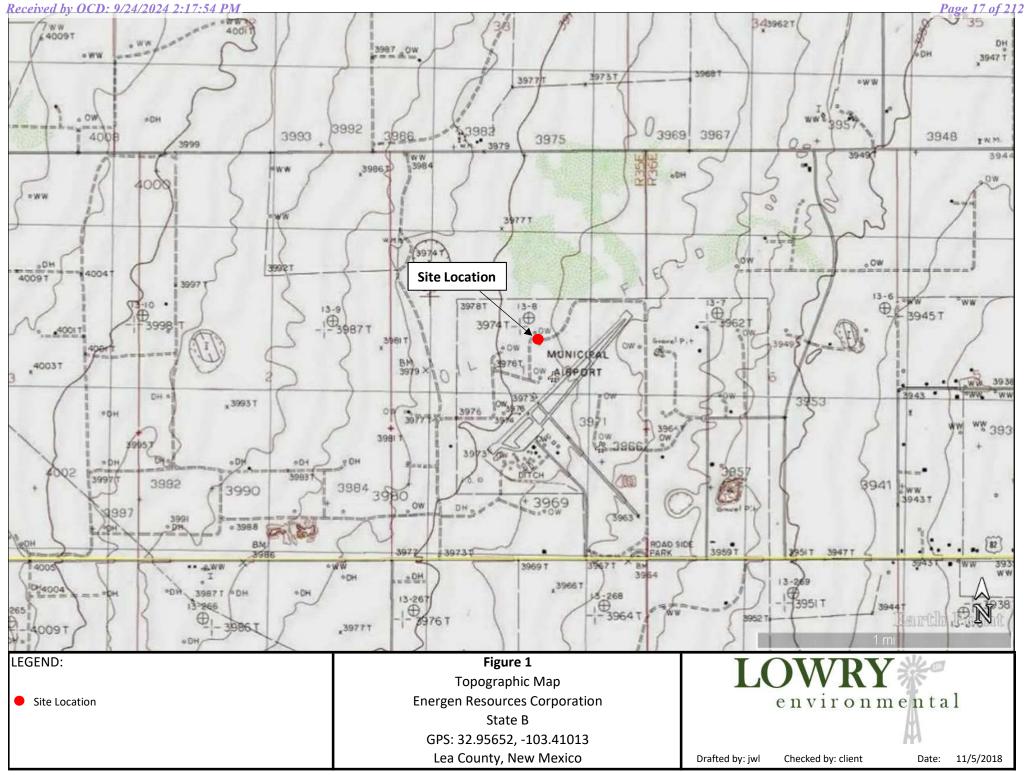
This document has been prepared on behalf of Energen Resources Corporation. Use of information contained in this report, including exhibits and attachments, by any other party without the consent of LEA and/or Energen Resources Corporation is prohibited.

This document has been prepared in a professional manner, using the degree of skill and care exercised by similar environmental professionals. LEA notes that the facts and conditions referenced in this document may change over time and that the conclusions and recommendations are only applicable to the facts and conditions as described at the time this document was prepared.

LEA has prepared this report to the best of its ability. No other warranty, expressed or implied, is made or intended.

ATTACHMENT #1

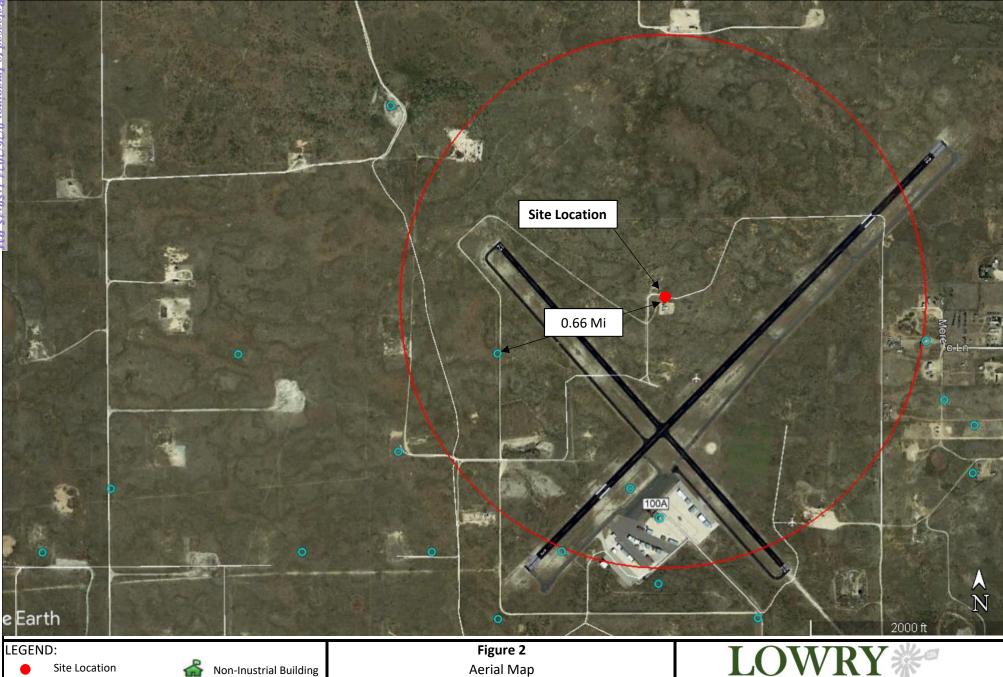
Figure 1 - Topograpic Map



Released to Imaging: 9/26/2024 1:59:45 PM

ATTACHMENT #2

Figure 2 - Aerial Map



- Fresh Water Well 0
- 100-Year Floodplain High/Critical Karst
- Subsurface Mine 8 1/2 Mile Radius \bigcirc

Aerial Map **Energen Resources Corporation** State B GPS: 32.95652, -103.41013 Lea County, New Mexico



5

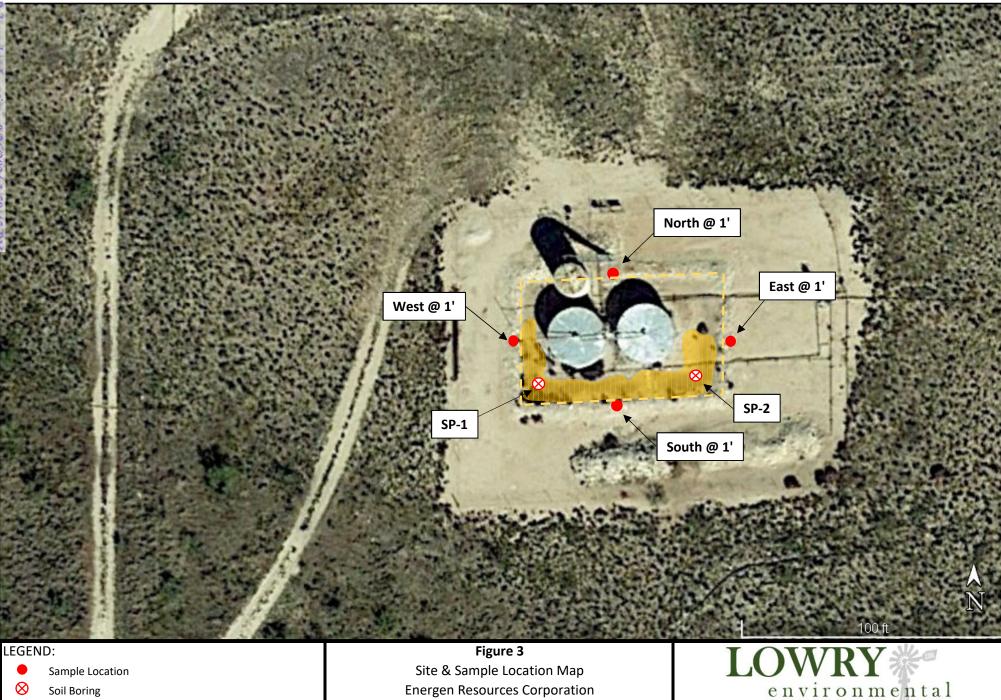
9/24

12024

PM

ATTACHMENT #3

Figure 3 - Site & Sample Location Map



Earthen Berm

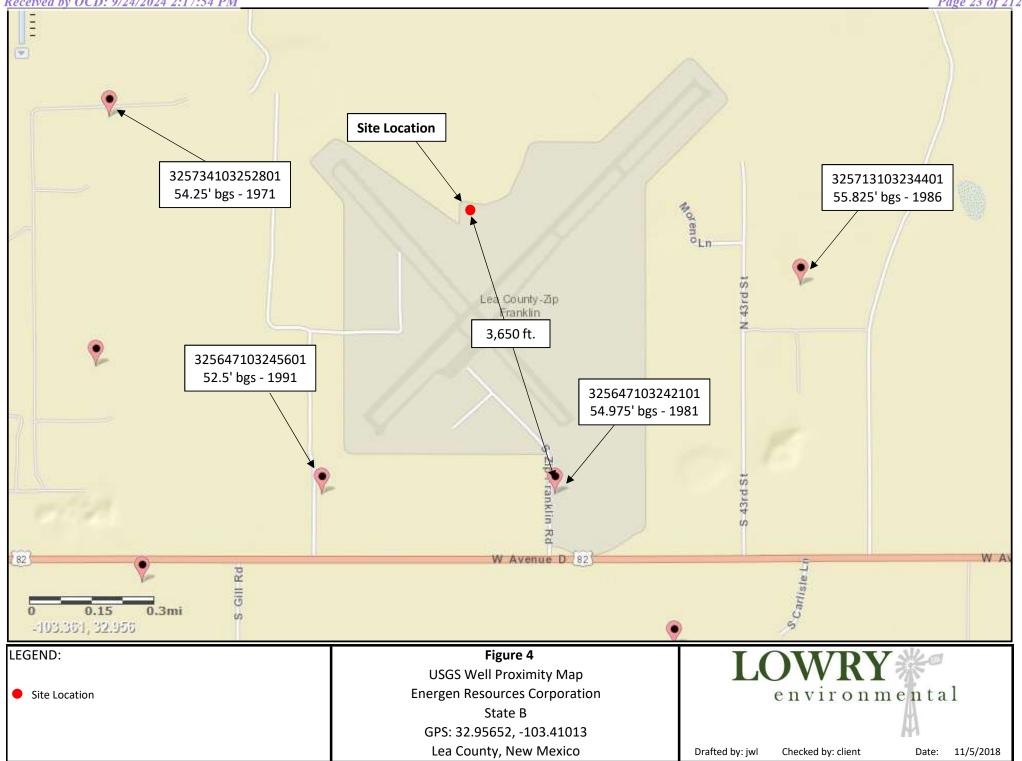
Figure 3 Site & Sample Location Map Energen Resources Corporation State B GPS: 32.95652, -103.41013 Lea County, New Mexico



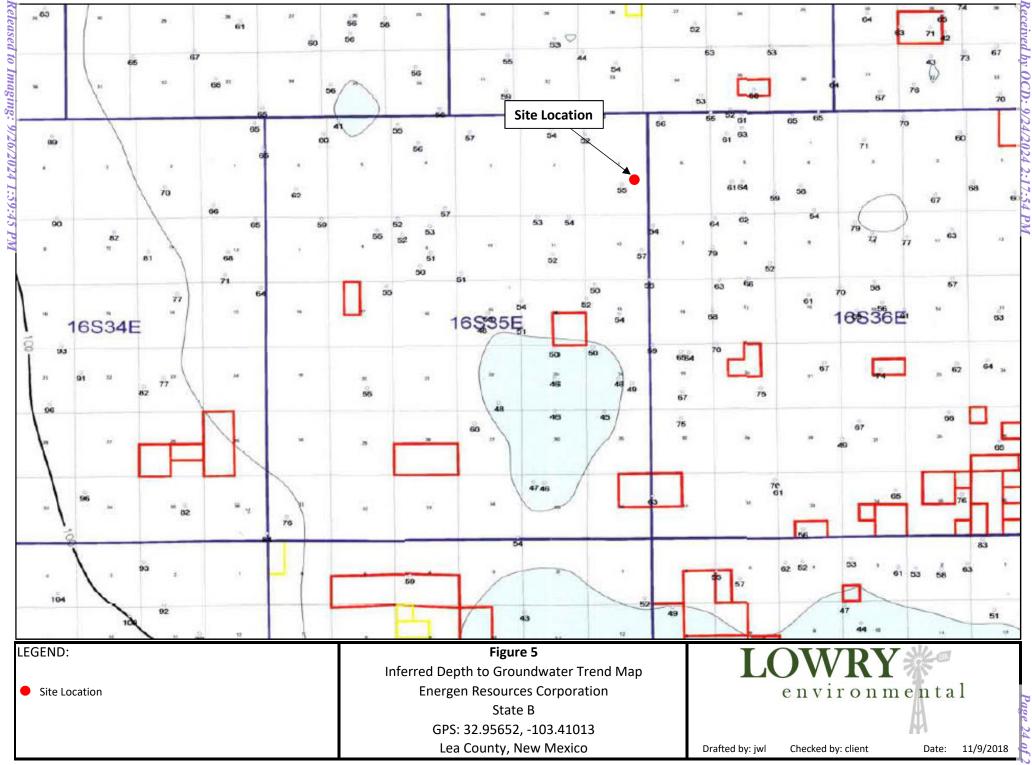
ATTACHMENT #4

Depth to Groundwater Information

Received by OCD: 9/24/2024 2:17:54 PM



Released to Imaging: 9/26/2024 1:59:45 PM





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

|--|

Data Category:	Geographic Area:		
Groundwater	✓ United States	\sim	GO

Click to hideNews Bulletins

- <u>Please see news on new formats</u>
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325713103234401

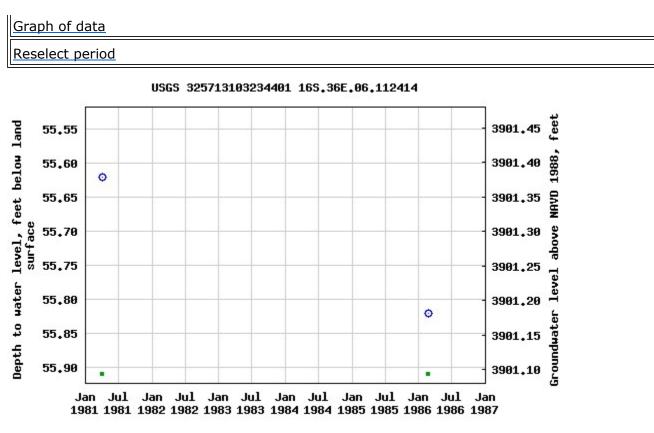
Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325713103234401 16S.36E.06.112414

Available data for this site Groundwater: Field measurements V GO Lea County, New Mexico Hydrologic Unit Code --Latitude 32°57'13", Longitude 103°23'44" NAD27 Land-surface elevation 3,957 feet above NAVD88 The depth of the well is 102 feet below land surface. This well is completed in the Ogallala Formation (1210GLL) local aquifer. **Output formats**

Tab-separated data



Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey



Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2018-11-05 12:36:20 EST 1.08 0.94 nadww01



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

|--|

Data Category:	Geographic Area:		
Groundwater	✓ United States	\sim	GO

Click to hideNews Bulletins

- <u>Please see news on new formats</u>
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read <u>more</u>
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325647103242101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325647103242101 16S.35E.01.41120

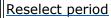
Available data for this site Groundwater: Field measurements \checkmark GO Lea County, New Mexico Hydrologic Unit Code --Latitude 32°56'47", Longitude 103°24'21" NAD27 Land-surface elevation 3,968 feet above NAVD88 This well is completed in the Ogallala Formation (1210GLL) local aquifer.

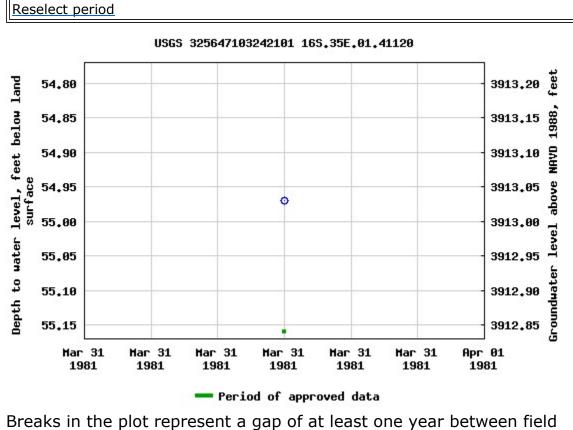
Output formats

Table of data

Tab-separated data

<u>Graph of data</u>





measurements.

Download a presentation-quality graph

Ouestions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior U.S. Geological Survey **Title: Groundwater for USA: Water Levels**



Page Contact Information: USGS Water Data Support Team Page Last Modified: 2018-11-05 12:38:42 EST

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

7.04 0.9 nadww01



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

|--|

Data Category:	Geographic Area:		
Groundwater	✓ United States	\sim	GO

Click to hideNews Bulletins

- <u>Please see news on new formats</u>
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325647103245601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325647103245601 16S.35E.01.131312

 Available data for this site
 Groundwater: Field measurements
 ✓
 GO

 Lea County, New Mexico

 Hydrologic Unit Code 12080003

 Latitude 32°56'47", Longitude 103°24'56" NAD27

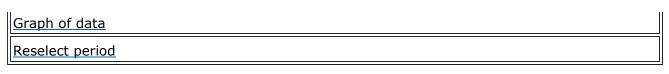
 Land-surface elevation 3,976 feet above NAVD88

 The depth of the well is 75 feet below land surface.

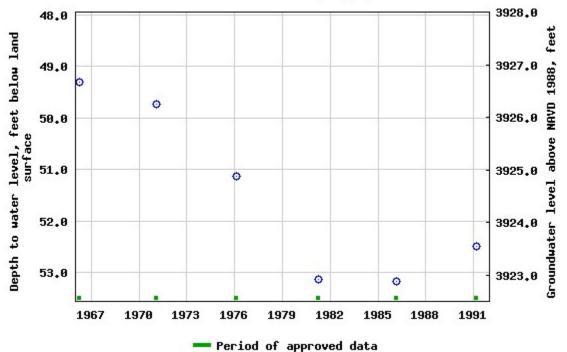
 This well is completed in the Ogallala Formation (1210GLL) local aquifer.

 Output formats

Tab-separated data



USGS 325647103245601 165.35E.01.131312



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey



Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2018-11-05 12:40:26 EST 1 0.88 nadww01



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	✓ United States	\checkmark	GO

Click to hideNews Bulletins

- <u>Please see news on new formats</u>
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325734103252801

Minimum number of levels = 1

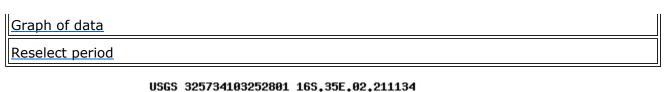
Save file of selected sites to local disk for future upload

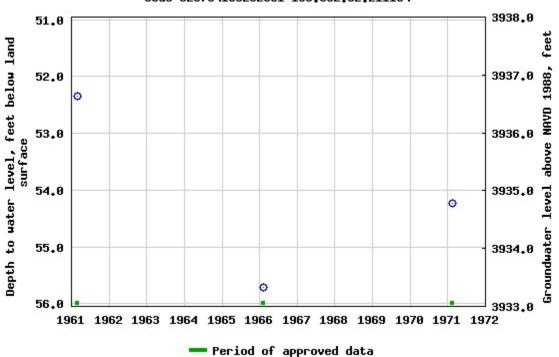
USGS 325734103252801 16S.35E.02.211134

Available data for this site Groundwater: Field measurements GO Lea County, New Mexico Hydrologic Unit Code 12080003 Latitude 32°57'34", Longitude 103°25'28" NAD27 Land-surface elevation 3,989 feet above NAVD88 The depth of the well is 100 feet below land surface. This well is completed in the Ogallala Formation (1210GLL) local aquifer. **Output formats**

Table of data

Tab-separated data





Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey



Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2018-11-05 12:41:54 EST 1.02 0.89 nadww01

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil closed)	ned, e is	1						/ 2=NE est to lar	3=SW 4=S rgest) (N	E) VAD83 UTN	Л in 1	neters)	(In feet)		
		POD Sub-		0	0	Q									w	ater
POD Number	Code		County	64	16	4	Sec		0	X	Y		DistanceDepth		Vater Co	lumn
<u>L 10272</u>		L	LE	4	2	1	01	16S	35E	648409	3647475*		228	120	80	40
<u>L 05904</u>	R	L	LE			1	01	16S	35E	648116	3647369*	•	539	150	70	80
L 03357		L	LE				01	16S	35E	648532	3646966*	•	579	120	60	60
<u>L 03420</u>		L	LE				01	16S	35E	648532	3646966*	•	579	120	60	60
L 03663 POD2	R	L	LE	1	1	4	01	16S	35E	648624	3646878*	•	659	164	60	104
												Aver	age Depth to Water:		66 fee	t
													Minimum Depth	:	60 fee	t
													Maximum Depth:		80 feet	i
Record Count: 5																
UTMNAD83 Radius	s Search (in	meters)	<u>:</u>													
Easting (X): 648	3628.7		North	ing	(Y):	3647	537.3			Radius: 8	05				
*UTM location was derived	fuom DI SS	··· II.l.														

ATTACHMENT #5 Soil Profile

Received by OCD: 9/24/2024 2:17:54 PM

SOIL PROFILE

Site Name: <u>Stak B</u>

Date: 7/31/2018

Description	•	Depth (ft. bgs)
<u>Top soil - Brown</u> Hardpan	aurantiness	1
Hardpan		2
	man	3
		. 4
		5
		6
		7
		8
		9
<u></u>		10
		11
		12
		13
		14
		15
Caliche v/ Sand		16
,		17
		18
		19
		20
		21
		22
		23
4		24
		25
		26
		27
		28
		29
		30
		31
		32 33
		33
		34
		35
		37
		38
		38
		39 40
		40

10f2

Received by OCD: 9/24/2024 2:17:54 PM

SOIL PROFILE

Site Name: Stale "B"

Date: 7/31/2018

Description	_	Depth (ft. bgs)
		41
Caliebe w/ Sand		2
		3
		4
		5
		6
		7
		8
		9
		50
		1
	mass	2
Brown Sand		5-3
		4
		5
		6
		7
		8
		9
		0
		\$ \$1
		2
		TD 3
		4
		5
		6
		7
		8
		9
		0
		1
		2 3
		4
		5
		6
		8
		9 0
·		U.

20f2

ATTACHMENT #6

Laboratory Analytical Reports



August 01, 2018

STEVE TAYLOR CAPROCK SERVICES P.O. BOX 457 LOVINGTON, NM 88260

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 07/31/18 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

mile Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ SURFACE (H802084-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.79	1.00	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	38.3	1.00	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	53.6	1.00	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	212	3.00	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	307	6.00	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2530	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	29500	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	3790	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	321	% 41-142	2						
Surrogate: 1-Chlorooctadecane	1110	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 3' (H802084-02)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	08/01/2018	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*	389	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	4400	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	447	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	140	% 41-142							
Surrogate: 1-Chlorooctadecane	243	% 37.6-14	7						

Sample ID: SP 1 @ 6' (H802084-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/01/2018	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*	1140	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	6980	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	837	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	172	% 41-142							
Surrogate: 1-Chlorooctadecane	308	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 9' (H802084-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/01/2018	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*	112	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	1490	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	204	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	98.6	% 41-142							
Surrogate: 1-Chlorooctadecane	137	% 37.6-14	7						

Sample ID: SP 1 @ 12' (H802084-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS		4S				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	31.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	81.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	76.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 15' (H802084-06)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	0.054	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	0.062	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	0.168	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	47.4	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142	2						
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 18' (H802084-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	21.2	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

Sample ID: SP 1 @ 21' (H802084-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	95.3	% 41-142							
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 24' (H802084-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	198	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	68.5	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	87.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	84.2	% 37.6-14	7						

Sample ID: SP 1 @ 27' (H802084-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	309	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	27.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.4	% 41-142	2						
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 30' (H802084-11)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	90.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	82.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ SURFACE (H802084-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	8.41	1.00	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	6.84	1.00	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	142	3.00	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	157	6.00	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	877	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	7500	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	601	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	156	% 41-142	2						
Surrogate: 1-Chlorooctadecane	384	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 3' (H802084-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2680	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	12300	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	1430	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	247	% 41-142	,						
Surrogate: 1-Chlorooctadecane	503	% 37.6-14	7						

Sample ID: SP 2 @ 9' (H802084-14)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	33.3	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	556	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	45.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.7	% 41-142							
Surrogate: 1-Chlorooctadecane	113	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 15' (H802084-15)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	84.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 21' (H802084-16)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.0	% 41-142							
Surrogate: 1-Chlorooctadecane	83.3	% 37.6-14	7						

Sample ID: SP 2 @ 27' (H802084-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	76.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	72.3	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 33' (H802084-18)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	30.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	388	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	68.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	81.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.9	% 37.6-14	7						

Sample ID: SP 2 @ 39' (H802084-19)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	66.4	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	14.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.6	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 45' (H802084-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	29.1	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	89.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	83.0	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 48' (H802084-21)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	49.6	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.7	% 37.6-14	7						

Sample ID: SP 2 @ 54' (H802084-22)

Chloride, SM4500Cl-B		/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	34.5	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	82.8	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 57' (H802084-23)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	50.6	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	82.8	% 41-142							
Surrogate: 1-Chlorooctadecane	78.0	% 37.6-14	7						

Sample ID: SP 2 @ 60' (H802084-24)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	37.6	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	97.6	% 41-142							
Surrogate: 1-Chlorooctadecane	94.7	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 63' (H802084-25)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	144	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	41.5	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	99.3	% 41-142							
Surrogate: 1-Chlorooctadecane	98.4	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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.
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

mite Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Composed Norma	(575) 393-2326 FAX (575) 393-24	476				-		- Kinner		and a subject of the								200-040-000-0200					
Company Name	Caprock Services									The local division of							ANA	LYSI	S RE	QUE	ST		
Project Manage	r: Stave Tuylor							<i>P</i> .	0. #	:	top of the second												
	Bux 457							Co	omp	any:E	nersen							2					1
City: Loving	for State: N/N	1 Zip	s: 8	38	160	5		At	tn:	TOMM	y York												
Phone #: 573	5-704-2718 Fax #:										Ry Bot									252			2
Project #:	Project Own	ner: /	The.	se.	C					Sem;							-						-
Project Name:	State "B"	D.	C								Zip: 79	360											
Project Location	n:		Weiterst 14 March								2)-209-											3	
Sampler Name:	Steve Taylor								x #:				1										
FOR LAB USE ONLY				-	N	ATR	IX		PR	ESERV.	SAMPL	ING											
Lab I.D. #802084	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER WASTEWATER WASTEWATER SolL SolL SolL SolL SolL SolL SolL SolL		ACID/BASE:	ICE / COOL OTHER :	DATE TIME		Chin ide	TPH	RA	X21 - CT					-						
1	SPI Surface	6	1			×				x	7-31-18	8:15 AM	Х	X	X								
234	SPI 03'	6	1			\times				7		8:30HM		X									
3	SPICE	6	1			×	-			x		8:45 AM	X	X									
	SPIPGI	6	1			X		_		X		9:05 AM	X	X									
	SPIC121	6	1	_		X	<u> </u>			7		9 BAR	X	X		Ĺ							
6	SIC 15'	6	1			×		-		>	7-3-18	9:10AM	X	X	X		_				-		
4	SPI & 18	6	L			٢	_	-		7		9:20 AM		X		_		1					
4 G	SPIEZI	6	4	<u> </u>		Y	_	-		7		9: Zo Am											
	51624	6	1			×				7	farment iteration	9:30 AM	X	X	1		1						
10	SPIP.27 and Damages. Cardinal's liability and client's exclusive remedy f	6	1		. 1	X				X	7-31-18	9:35 AM	X	X									

PLEASE NOTE: Lability and Damages. Cardinal's hability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 30 days after completion of the applic service. In no event shall Cardinal be liable for incidental or consequental 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the pabore stated reasons or tohorwise.

Relinquished By:	Datezilio	Received By:	a upon any of the above stated to	Phone Result:	□ Yes	□ No	Add'I Phone #:	
14	12110	And: Ma	1 1 1.0	Fax Result:	Yes	🗆 No	Add'I Fax #:	
May and 1	Times:25	MUM THE	NOOR	REMARKS:				
Relinguished By:	Date:	Received By:				. 11	1	
itelinquished by:	Date.	Saceived By.		1	111 <	H		
	Time:			l r	run	Juin	1	
	16							
Delivered By: (Circle One) 井	1.	Sample Condition	CHECKED BY:	u			20 10	
Samples LIDE Due Others //	20/11/11	Ves Yes	(Initials)					
Sampler - UPS - Bus - Other: 4.	5014.25		ythe					



2:17:54 PM

Received by OCD: 9/24/2024

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name	ct Manager: Stive Tuylor									131	1470		1000				ANA	LYSI	S RE	QUE	ST		
Project manage	. Stire Tuylor				P.0). #:					1							Γ		Τ			
Address: PU	Bux 457							Cor	npar	1y: /	Enerser	L	1										
	gkn State: NI	M Zip	o: 8	180	210	2		Attr	n:	Tom	MJ York	4											
	-704-2718 Fax #:							Add	dress	s: HI	My York RY Bix	546A											
Project #:	Project Owr	ner: /	En	ers	m			City	1: 5	en.	Note	<u> </u>				3							
Project Name:			- / .	10							Zip: 79	310											
Project Location	n:										32.209											36	
	Stare Tuylor							Fax		. //	- 10 1	270-		1									
FOR LAB USE ONLY		Т	Т	1	M	ATRI	x	and the second	21.331/200	ERV.	SAMPL	NG											
Lab I.D. H902094	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WATER WASTEWATER Soll Oll SLUDGE				ACID/BASE:	OTHER:	DATE	TIME	1.hlorick	Hdl	B Tex								
11	SPIE 30	6)		>				X	5	7-31-18	9.45 AM	X	X	X								
12	SPIC 30° SPAC Surface SPZC 3°	6	1		2	c 📃			X	5		8: JOAM		X	X								
13	SPZE 3'	6	1		>	<			1		7-31-18	9:43HM	\times	X									7010
14	SP20 91 SP20 151	6	,		2				1	×		9:45 AM		X									
. 15	SPZP 151	6			2						7-3/-18			X	X								
	SPZEZI'	G)	_		٤			7		7-31-18	9:58An	X	X									
17	SPZE 27'	6	1			٢				×	7-31-18												
18	SP20 33'	6	1		>	c			7		Contraction of the second states of the second stat	10:30 AM		×,									
	SP20 39'	6	1			×				٢		10:36州		X				. 2					
	SIZE 45" nd Damages. Cardinal's liability and client's exclusive remedy f	G	1		7	5			7	<	7-31-18	10:50 AM	X	X	X						6		

made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, ----

rolated to th

		s of whether such claim is based upon any of the above stated	reasons or otherwise.			
Relinquished By:	Date: 1/ 12 Received	By:	Phone Result:	□ Yes □ No	Add'l Phone #:	
11 11	113110	1. Warden	Fax Result:	□ Yes □ No	Add'l Fax #:	
Att. The	Times . 2 C	1 HOMANN	REMARKS:			
Alle Mark	3. 20 LML	a spender L	+			
Relinguished By:	Date: Received	By:			1	
				-		
	Time:			(), c	h ···	
	11		1	Lus		
Delivered By: (Circle One)	#15	Sample Condition CHECKED BY:	-	5.		
200 ST 10 MOL		Cool Intact (Initials)	2			8
Sampler - UPS - Bus - Other:	430 11000	Yes Yes				
	1.20 4.600					•
	1					
		4				



Received by OCD: 9/24/2024 2:17:54 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-247	76																								
Company Name	" Caprock Services									E]/4	(当)()						-	ANA	LYSI	S RF	EQUE	ST			1122-14-2
Project Manage	er: Steve Tuyla							P.0). #:								-	T	T	T	T	T	Ť.	T	<u> </u>	<u> </u>
	-							Co	mpa	ny:	EI	nerger	r.													
City: Low	BOX 457 y Jon State: N/M - 704-2718 Fax #:	Zip	: 2	58	260			Att	n: -	70.	M	My Yo	ark				ř –									
Phone #: 575	- 704-2718 Fax #:							Ad	dres	s:H	ZZ	4 54	16 H							1						
Project #:	Project Owne	r: 6	En	ing	VL			City	<u>ک</u> :y	en	11	nck											1			
Project Name:	State B'	0		-				Sta	te:	TX	Z	Lip: 793	3.6													
Project Locatio								Pho	one	#:4.	32.	-209	-248-	3											9	
Sampler Name:	Sture Turtle		_				_	Fax											1							
FOR LAB USE ONLY		a.			MA	TRD	(_	PRE	SER	<u>v</u> -	SAMPL	ING													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	OTHER :	ACID/BASE:	DTHEP -	HEN.				ther de	HLL	S. Tex									
H802084		0	# 0	ß	WAS ⁷ SOIL	oll	SLI	5	and the same same		5	DATE	TIM		V	1	12									
21	SP2 0 48'	6	1		X				;	K	Ľ	7-31-18	10:55		X	X		-			ļ					
175	SP20 54'	6	-		X				=/,	×	Ŧ	7-51-18	11:00	A	X	× ×			NO	51	C	J.	-		~	-
2324	SP2857	66	<u> </u> 1		X	1		-	/	7		7-31-18 7-31-18			X	Ý	-		-			-				-
8423	SP28,60	6	i		X			-	/	×		7-31-18			$\overset{\frown}{\times}$	×		1.		-	-					
2524	SP20 63	6	ſ		5					x		1-31-18			V	X	r		1	· ·				-		
•											ľ		1.2	<u>//</u>	-A						1		1	-		
		-														,						1		1		
				1																×						
PLEASE NOTE: Liability a	nd Damages. Cardinal's liability and client's exclusive remedy for a	any clain	n arisir	ng whe	ther base	in co	niract c	r tort	shall b	e limite	diat	the amount or	id by the cli	ant for t	lha				14							
analyses. All claims include service. In no event shall C	ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including	deemed withou	l waive t limita	d unle	ss made i usiness in	n writin terrupt	ig and lons, lo	receiv ss of	red by C use, or	ardina	l with	in 30 days aft to incurred by	er completio	n of the	a applicat	ele										
affiliates or successors arisi Relinquished B	ng out of or related to the performance of services hereunder by C	ardinal,	regar	dless d	fwhether	such (laim is	base	d upon	any of	the at	bove stated re	Phone	herwise	.	□ Ye	, с П	No	Add'	Phone	#.		_			
Alta	7/3/18 Time: 25	4	10	C	i	~	A	le	N	SI	91	2	Fax Re REMA	esult	:	□ Ye	s 🗆	No	Add'l	Fax #:	.					
Relinquished B	y: Date:	Re	ceiv	red	By:	0	-				-						\cap			1						
	Time:																LI	is	h'.							
Delivered By	: (Circle One) #75		1	S	ample	Cor	ditic	n	С	HEC	KE	D BY:					1. 1.	11								
Sampler - UPS	- Bus - Other: 4.30 4.7	24	0	(lool	Inta	ct .			(In	itia	-(e														÷
		-0	C	-	Yes No		No		4	40	2			•	-			_			22					•



November 08, 2018

STEVE TAYLOR CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 11/02/18 10:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,





		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	11/02/2018		Sampling Date:	11/02/2018
Reported:	11/08/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	ENERGEN		-	

Sample ID: EAST @ 1' (H803144-01)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	0.199	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/06/2018	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.4	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	406	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	62.5	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	95.8	% 41-142							
Surrogate: 1-Chlorooctadecane	98.8	% 37.6-14	7						

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 claims is based in 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.



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	11/02/2018		Sampling Date:	11/02/2018
Reported:	11/08/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	ENERGEN			

Sample ID: NORTH @ 1' (H803144-02)

BTEX 8021B	mg/kg Analyzed By: ms		d By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	0.085	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	0.247	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	0.332	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/06/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.4	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	2300	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	482	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	95.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	173	% 37.6-14	7						

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 claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Libratorities.



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	11/02/2018		Sampling Date:	11/02/2018
Reported:	11/08/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	ENERGEN			

Sample ID: WEST@ 1' (H803144-03)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	<0.150	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	11/06/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	60.1	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	36.6	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	100 9	% 41-142							
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	7						

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 claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal cortactor.



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	11/02/2018		Sampling Date:	11/02/2018
Reported:	11/08/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	ENERGEN			

Sample ID: SOUTH @ 1' (H803144-04)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	<0.150	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	11/06/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2018	ND	184	92.2	200	2.91	
DRO >C10-C28*	195	10.0	11/05/2018	ND	208	104	200	1.90	
EXT DRO >C28-C36	119	10.0	11/05/2018	ND					
Surrogate: 1-Chlorooctane	86.4	% 41-142	2						
Surrogate: 1-Chlorooctadecane	91.6	% 37.6-14	7						

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 claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Libratorities.



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

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 claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Libratorities.

Received by OCD: 9/24/2024 2:17:54 PM

101 East Marland, Hobbs, NM 88240	240			
Company Name: Coprock Services		1) = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =		ANALYSIS REQUEST
N		P.O. #:		
57		Company: Epergen		
vot sv	Zip: 88260	Attn: Tommy York		
Phone #: (575) 704-2718 Fax #:		2	464	
F		City: Sen inote		
Project Name:		State: 7 Zip: 79366	0	
Project Location: State B		Phone #: (432) 209-2483	493	
Sampler Name: Matt Taylor				
FOR LAB USE ONLY	n. MATRIX	PRESERV, SAMPLING	le	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	TIME Chlorich TPH B-Tex	
2 Martho 1	× × 9	× 11-2-18 8:	S: 10 AM × × × ×	
-	6 1 4	81-2-11	S:154M X X X	
South		11-2-18	8:20AW X X X	
		-		
a constant of the second state is a second state in the second state is a second state in the second state is a second s	and the state of t	ar fart shall be limited to the amount cold by	ha cliant for the	
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Castinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including without limbiation, business interruptions, less of use, or lass of profits incurred by clarki, last bubblishers, and the service of the service of the service the monter the Cardinal transitions of whethers and waive of the back or stated transitions or dehevice.	ause whatsoevor shall be doemod waivod unless made in writing and received by Cardi younial damages. Including without limitation, business interruptions, less of use, or set of sovices hermonie by Cardinal repardless of whether such claim is based upon any	I received by Cardinal within 30 days after cor loss of use, or loss of profits incurred by client is based upon any of the above stated reason	fler completion of the applicable y client, its subsidiaries, reasons or otherwise.	
	Received By:	111	ult:	No Add'l Phone #: No Add'l Fax #:
Muffer Time: 76:03AU Relinquished By: Date: Time: Time:	Received By:	R What yo	REMARKS:	
Delivered By: (Circle One)	Sample Condition Cool Intact	ion CHECKED BY: (Initials)		*
10:10	ON LONT VC	1		

Laboratories

Page 65 of 212

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

.

ATTACHMENT #7 Photographic Log

PHOTOGRAPHIC LOG



Figure 1 View of surface staining from the initial release, facing East.



Figure 2 View of surface staining from the initial release, facing Northwest.



Figure 3 View of the affected area upon removal of the above-ground tanks.



Figure 4 View of drilling activities.

•

ATTACHMENT #8

Release Notification (FORM 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 April 3, 2017

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

Release Notification and Corrective Action

	OPERATOR	x Initial Report	Final Report
Name of Company Energen Resources Corporation	Contact Andy Cobb	· · · · · ·	
Address 3510 N A Street, Midland, TX 79705	Telephone No. 432-686-359	99	
Facility Name State B	Facility Type Oil and Gas Production Facility		

Surface Owner Dan Field/Branch Ranch Mineral Owner State of New Mexico API No. 3002502709

				LOCATION OF RELEASE				
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	1	16S	35E	4610	FSL	2301	FEL	LEA

Latitude 32.9565239 Longitude -103.4101334 NAD83

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 136 barrels Volume Recovered 0
Source of Release Oil Tank	Date and Hour of Occurrence 5/22/18 Date and Hour of Discovery 6/1/18
Was Immediate Notice Given?	If YES, To Whom?
Yes X No Not Required	
By Whom?	Date and Hour
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
🗌 Yes 🕱 No	
If a Watercourse was Impacted, Describe Fully.*	
	RECEIVED
	By CHernandez at 2:31 pm, Jun 04, 2018
	By Orientandez at 2.51 pm, sun 64, 2010
Describe Cause of Problem and Remedial Action Taken.*	
Corrosion caused a hole to develop in the oil tank and release fluid. The flui	d was not immediately discovered.
Describe Area Affected and Cleanup Action Taken.*	
The area inside the berm was affected and remediation will be as soon as p	ossible.
I hereby partify that the information given along is to get a local state	
regulations all operators are required to report and/or file certain release a	the best of my knowledge and understand that pursuant to NMOCD rules and obtifications 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	e contamination that pose a threat to ground water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report do	es not relieve the operator of responsibility for compliance with any other
federal, state, or local laws and/or regulations.	
\land	OIL CONSERVATION DIVISION
Signature: July WBB	
	\cap \downarrow
Printed Name: Andy Cobb	Approved by Environmental Specialist:
,	
Title: Director EH&S	Approval Date: 6/4/2018 Expiration Date:
E-mail Address: andy.cobb@energen.com (Conditions of Approval: Attached
Data: 6/4/2018	See attached directive
Date: 6/4/2018 Phone: 432-686-3599 Attach Additional Sheets If Necessary	
Auach Additional Sneets II Necessary	RP-5082 nCH1815552862
	CH1815554047

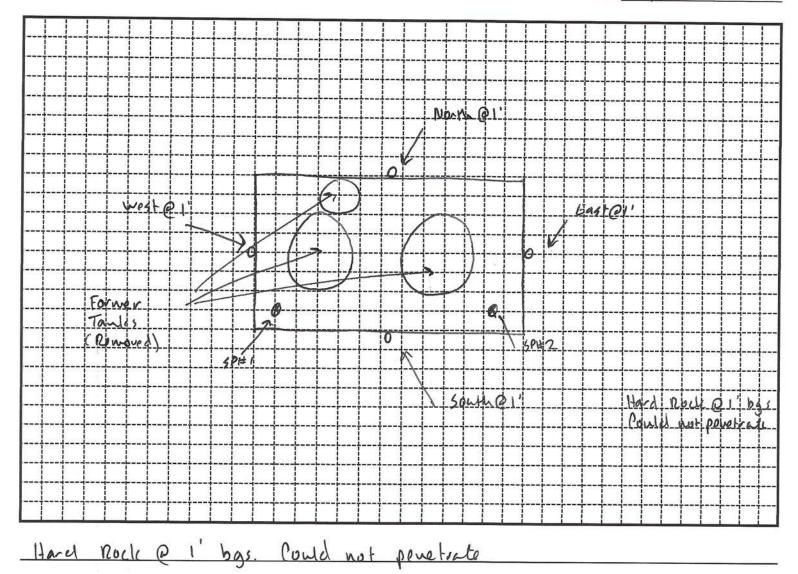
ATTACHMENT #9 Field Data

FIELD NOTES

site Name: State B

Date: 11 2 2018

, •



Odor/PID	Chloride
None	330
Slight	6120
None	2,652
Martin Contractor	942

Odor/PID	Chloride
++	
	Odor/PID

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride
	++	

Field ID	Odor/PID	Chloride
	+ +	
	1	

Field ID	Odor/PID	Chloride
	++	
	++	

From:	Hernandez, Christina, EMNRD
То:	<u>"Mann, Ryan"; "Joel Lowry"</u>
Subject:	RE: 1RP-5082 - Energen State B - Site Assessment Report and Proposed Remediation Plan
Date:	Wednesday, January 16, 2019 10:36:00 AM
Attachments:	1RP-5082 - State B - C-141 Pages1-5Signed.pdf
	image001.png
	1RP-5082 - State B - Site Assessment Report and Proposed Remediation Plan (2) pdf

Mr. Lowry:

NMOCD approves of the delineation completed for **1RP-5082**. The proposed remediation and sampling plan are also approved with these conditions:

- Confirmation sampling must include the sidewall at the border between the different depths of excavation for SP1 and SP2 areas.
- Excavated material must be placed on liner pending transport.
- Dated photo documentation of the remedial activities.
- Scaled map with the confirmation sample locations in relation to the delineation sample points.

Thanks, Christina Hernandez EMNRD-OCD Environmental Specialist 1625 N. French Drive Hobbs, NM 88240 575-393-6161 ext. 111 Christina.Hernandez@state.nm.us

From: Mann, Ryan <rmann@slo.state.nm.us>

Sent: Thursday, January 3, 2019 11:18 AM

To: 'Joel Lowry' <joel@lowryenvironmental.com>; Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us> **Subject:** [EXT] RE: 1RP-5082 - Energen State B - Site Assessment Report and Proposed Remediation Plan

Good morning Mr. Lowry,

NMSLO approves of the proposed with the following comments:

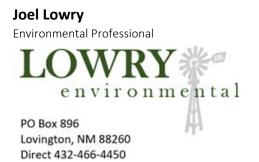
• Confirmation samples need to be taken on the sidewall of all excavation of differing depths. SP1 and SP2 will most like have differing depth. The North @1' looks like it will be a separate excavation and will not adjoin.

Approval is also necessary from NMOCD.

From: Joel Lowry [mailto:joel@lowryenvironmental.com]
Sent: Wednesday, December 19, 2018 2:35 PM
To: christina.hernandez@state.nm.us; Mann, Ryan <rmann@slo.state.nm.us>
Subject: 1RP-5082 - Energen State B - Site Assessment Report and Proposed Remediation Plan

Please find attached the *Site Assessment Report and Proposed Remediation Plan* along with pages from the Form C-141, that has been prepared for Energen's State B. The Site is located on State Land in UL "J", Section 1, Township 16 South, Range 35 East in Lea County, New Mexico. Upon your review and approval, Energen is prepared to continue remediation activities as outlined within the attached. If you have any questions or need any additional information, please feel free to contact myself or Tommy York by phone or email. Thanks.

Respectfully,



The content of this email may be confidential and/or privileged. If you are not the intended recipient, or an authorized representative of the intended recipient, please notify Lowry Environmental and delete this email from your system at your earliest convenience. Dissemination or copying of this email, its content or its attachments is prohibited.

This email has been scanned by the Symantec Email Security.cloud service. For more information please visit <u>http://www.symanteccloud.com</u>

This email has been scanned by the Symantec Email Security.cloud service.

For more information please visit https://clicktime.symantec.com/a/1/JSkKHUFnrrgCfGJjBIvHhMFFfVFau8wLqp-

ldbRKQn8=?d=Hi27pxkgyhimNQk0g77y2ms5aovY7BjDLDdjSHQf17mPn8x3Dhcu-

xcMsnZl7Ln4LFEyIq_aLjh7OyoiEotPP3-

PmehniHzHDg8wliwuPbigvv1lcHOHjHFgD4QOBJfJDw8r0x8Zuv03h_Ntm8cw3z2_zk5FSTzQ0il5D75oiSyAjjjJsLj2QTZQ4DT-15TY5IsMWVgL-j35EOgo4O4EzKdplkDsA0TH9MYGBbrVD6VjvDUXe8a6FAWrc8rkGDJeSrg8B4U-slC-O9dzxf8hvS9EPiQ6qrRn8Tf1hmH2g_O-6lpPHGHt0XiktdNNQUFGrXzJl22a_CDOtt7PcEbTTjgXovvLqWzx1-4foqnmctWU1BtHEeCVZtIJY6LEKXhPtz8Cx2d_seRwoWs6T9G9eaWqT6iMv9-harYAk7wlQVEFTC28tpiLDJoZv3-9HyZw%3D%3D&u=http%3A%2F%2Fwww.symanteccloud.com



May 27, 2019

Dylan Rose-Coss New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1625 French Drive Hobbs, NM 88240

Ryan Mann Hobbs Field Office New Mexico State Land Office 2827 North Dal Paso Street, Suite 117 Hobbs, NM 88240

Re: Site Assessment and Closure Report Site Name: State B GPS: Latitude: 32.95652 Longitude: -103.41013 Legals: UL "J", Sec. 1, T16S, R35E Lea County, New Mexico NMOCD Ref. No. 1RP-5082

Lowry Environmental & Associates, LLC (LEA), on behalf of Energen Resources Corporation, has prepared this Site Assessment and Closure Report for the Release Site known as the State B. Details of the release are summarized on the table below:

Nature and Volume of Release						
Date Release Discovered	6/1/2018	Source of Release	Tank Battery			
Type of Release	Crude Oil	Volume Released (bbls)	136			
Type of Release	Cidde Oli	Volume Recovered (bbls)	None			
Cause of Release						
A hole developed in the oil ta	nk as a result of corrosion; the fluid	d was not immediatedly discovered.				
Affected Area						
The release affected and area	within an unlined earthen contain	iment.				
as this a major release? If YES, for what reasons (s) is this considered a major release?						
Yes	Yes Volume Greater than 25 bbls					
If Yes, was immediate notice	given to the OCD? By whom? To v	whom? When and by what means?				
N/A						

A copy of the Release Notification (NMOCD Form C-141) is provided as Attachment #8.

Incident ID	nCH1815552862		
District RP	1RP-5082		
Facility ID	30-025-02709		
Application ID	pCH1815554047		

Incident ID nCH1815552862

District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Site Assessment/Characterization			
What is the shallowest depth to groundwater beneath the area affected by the release?	>63'		
Did this release impact groundwater or surface water?	No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	No		
Are the lateral extents of the release within 300 feet of a wetland?	No		
Are the lateral extents of the release overlying a subsurface mine?	No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	No		
Are the lateral extents of the release within a 100-year floodplain?	No		
Did the release impact areas not on an exploration, development, production or storage site?	No		

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey was conducted in an effort to determine the average depth to groundwater within a 1 Mile radius of the Site and identify any registered water wells within a 1/2 Mile radius of the Site. A search of the NMOSE database suggested the presence of 1 water well (L10272) within 1,000 ft. of the Site. A field survey indicated available geographic information for L10272 was outdated and/or incorrect; there was no water well in that vicinity. A search of the USGS database did not identify any water wells within a 1/2 Mile radius.

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release				
Benzene	10 mg/kg			
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	50 mg/kg			
Total Petroleum Hydrocarbons	2,500 mg/kg			
Combined GRO and DRO	1,000 mg/kg			
Chloride	10,000 mg/kg			

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2. Depth to groundwater information is provided as Attachment #4. A Photographic Log is provided as Attachment #7.

Incident ID	nCH1815552862		
District RP	1RP-5082		
Facility ID	30-025-02709		
Application ID	pCH1815554047		

INITIAL SITE ASSESSMENT

On **July 31, 2018**, two (2) investigative soil bores (SP-1 and SP-2) were advanced at the Site in an effort to determine the vertical extent of impacted soil affected above the NMOCD Closure Criteria. Soil bore SP-1 was advanced to a depth of 30 ft. bgs. During the advancement of the soil bore, 10 soil samples were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria for TPH and chloride beyond 12 ft. bgs in the area represented by soil bore SP-1.

Soil bore SP-2 was advanced to a depth of 63 ft. bgs. During the advancement of the soil bore, 14 soil samples were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria for TPH and chloride beyond 9 ft. bgs in the area represented by soil bore SP-1.

On **November 2, 2018**, four (4) soil samples (North @ 1', East @ 1', South @ 1' and West @ 1') were collected from the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil affected above the NMOCD Closure Criteria. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples, with the exception of soil sample North @ 1', which exhibited a GRO+DRO concentration of 2,311.4 mg/kg and a TPH concentration of 2,793.4 mg/kg. Collection of soil samples from deeper intervals was precluded due to the presence of an impenetrable rock layer.

A table summarizing laboratory analytical results from soil samples collected during the initial site assessment is provided on the following page:

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment(s)											
SW 846 8021B						SW 846 8015M Ext.				E300/4500Cl	
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1 @ Surf.	7/31/18	0-6"	In-Situ	2.79	307	2,530	29,500	32,030	3,790	35,820	96.0
SP1 @ 3'	7/31/18	3'	In-Situ	-	-	389	4,400	4,789	447	5,236	1,260
SP1 @ 6'	7/31/18	6'	In-Situ	-	-	1,140	6,980	8,120	837	8,957	480
SP1 @ 9'	7/31/18	9'	In-Situ	-	-	112	1,490	1,602	204	1,806	96.0
SP1 @ 12'	7/31/18	12'	In-Situ	-	-	<10.0	31.0	31.0	<10.0	31.0	48.0
SP1 @ 15'	7/31/18	15'	In-Situ	<0.050	<0.300	<10.0	47.4	47.4	<10.0	47.4	32.0
SP1 @ 18'	7/31/18	18'	In-Situ	-	-	<10.0	21.2	21.2	<10.0	21.2	32.0
SP1 @ 21'	7/31/18	21'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP1 @ 24'	7/31/18	24'	In-Situ	-	-	<10.0	198	198	68.5	266.5	48.0
SP1 @ 27'	7/31/18	27'	In-Situ	-	-	<10.0	309	309	27.8	336.8	48.0
SP1 @ 30'	7/31/18	30'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP2 @ Surf.	7/31/18	0-6"	In-Situ	<1.00	157	877	7,500	8,377	601	8,978	800
SP2 @ 3'	7/31/18	3'	In-Situ	-	-	2,680	12,300	14,980	1,430	16,410	352
SP2 @ 9'	7/31/18	9'	In-Situ	-	-	33.3	556	589	45.0	634.3	1,410
SP2 @ 15'	7/31/18	15'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,920
SP2 @ 21'	7/31/18	21'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	2,120
SP2 @ 27'	7/31/18	27'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	1,360
SP2 @ 33'	7/31/18	33'	In-Situ	-	-	30.0	388	418	68.8	486.8	1,090
SP2 @ 39'	7/31/18	39'	In-Situ	-	-	<10.0	66.4	66.4	14.8	81.2	720
SP2 @ 45'	7/31/18	45'	In-Situ	<0.050	<0.300	<10.0	29.1	29.1	<10.0	29.1	368
SP2 @ 48'	7/31/18	21'	In-Situ	-	-	<10.0	49.6	49.6	<10.0	49.6	368
SP2 @ 54'	7/31/18	21'	In-Situ	-	-	<10.0	34.5	34.5	<10.0	34.5	256
SP2 @ 57'	7/31/18	57'	In-Situ	-	-	<10.0	50.6	50.6	<10.0	50.6	224
SP2 @ 60'	7/31/18	60'	In-Situ	-	-	<10.0	37.6	37.6	<10.0	37.6	128
SP2 @ 63'	7/31/18	63'	In-Situ	<0.050	<0.300	<10.0	144	144	41.5	185.5	128
East @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	13.4	406	419.4	62.5	481.9	64.0
North @ 1'	11/2/18	1'	In-Situ	<0.050	0.332	11.4	2,300	2,311.4	482	2,793.4	480
West @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	<10.0	60.1	60.1	36.6	96.7	1,060
South @ 1'	11/2/18	1'	In-Situ	<0.050	<0.300	<10.0	195	195	119	314	3,080
	Closure C	riteria		10	50	-	-	1,000	-	2,500	10,000

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #5. Laboratory analytical reports are provided as Attachment #6.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Energen Resources Corporation proposes the following remediation activities designed to advance the Site toward an approved closure:

•Utilizing mechanical equipment, excavate impacted soil within the release margins in the area characterized by sample point SP-1 to a depth beyond 9 ft. bgs, until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.

•Excavate impacted soil within the release margins in the area characterized by sample point SP-2 to a depth beyond 3 ft. bgs, until laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria.

•Excavation sidewalls will be advanced horizontally until laboratory analytical results from confirmation soil samples indicate BTEX, TPH and chloride concentrations are below the NMOCD Closure Criteria. This will include the impacted area characterized by soil sample North @ 1'.

• Excavated soil will be temporarily stockpiled on-site, pending transportation under manifest to an NMOCD-approved disposal facility.

• Upon receiving favorable laboratory analytical results from confirmation soil samples (below the NMOCD Closure Criteria) excavated areas will be backfilled with locally sourced, non-impacted "like" material. Excavation backfill will be placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than **50 linear ft**. A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **500 square feet**. Additional, "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of this Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **1,070 cubic yards** of soil has been affected above the NMOCD Closure Criteria.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

NMOCD APPROVALS/STIPULATIONS

On December 19, 2018, a Site Assessment Report and Proposed Remediation Plan was submitted to the NMOCD and NMSLO proposing remediation activities designed to advance the Site toward and approved closure.

The Site Assessment Report and Proposed Remediation Plan was subsequently approved. Please reference the associated Site Assessment Report and Proposed Remediation Plan that was submitted 1RP-5082 for for additional details.

REMEDIATION ACTIVITIES SUMMARY

On **February 4, 2019**, remediation activities commenced at the release site. Impacted soil within the release margins was excavated and stockpiled on-site, atop an impermeable plastic liner, pending final disposition. The floor and sidewalls of the excavation were advanced until field test results suggested concentrations of BTEX, TPH and chloride were below the NMOCD Closure Criteria.

On **February 19, 2019**, twenty-nine (29) excavation confirmation soil samples (Floor #1 - Floor #20, NSW 1, NSW 2, ESW 1, ESW 2, SSW 1, SSW 2, WSW 1, WSW 2 and) WSW 3 GC were collected from the floor and sidewalls of the excavated area and submitted to the laboratory for analysis of BTEX, TPH and/or chloride concentrations. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples Floor #2, which exhibited a TPH concentration of 4,842 mg/kg, Floor #7, which exhibited a GRO+DRO concentration of 1,051 mg/kg, Floor #8, which exhibited a GRO+DRO concentration of 1,241 mg/kg, soil sample Floor #10, which exhibited a TPH concentration of 4,830 mg/kg, SSW 1, which exhibited a GRO+DRO concentration of 1,010 mg/kg and WSW 3 GC, which exhibited a GRO+DRO concentration of 1,281.0 mg/kg.

In addition, two (2) grab soil samples (Floor Stain @ 10' and Floor Stain @ 4') were collected from stained areas within the floor of the excavation and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. TPH concentrations exceeded the NMOCD Closure Criteria in each of the submitted soil samples.

Impacted soil affected above the NMOCD Closure Criteria represented by soil samples Floor #2, Floor #7, Floor #8, Floor #10, Floor #11, Floor #13, Floor Stain @ 10' and Floor Stain @ 4' was excavated.

On **March 1, 2019**, ten (10) excavation confirmation soil samples (Floor 8B, Floor 7 B, Floor 10 B, Floor 11 B, Floor 2 B, Floor Stain @ 11.5'B, Floor Stain@ 5'B, SSW 1 B and WSW 3 GC B) were collected from the floor and sidewalls of the excavated area and submitted to the laboratory for analysis of TPH concentrations, which were determined to be below the NMOCD Closure Criteria in each of the submitted soil samples.

On **March 19, 2019**, twelve (12) excavation confirmation soil samples (Floor #2 N. Wall, Floor #2 E. Wall, Floor #2 S. Wall, Floor #3 E. Wall, Floor #6 S. Wall, Floor #7 E. Wall, Floor #11 S. Wall, Floor #11 E. Wall, Floor #11 N. Wall, Floor #9 E. Wall, Floor #13 S. Wall and Floor #13 E. Wall) were collected from the interior sidewalls of the excavated area and submitted to the laboratory for analysis of TPH concentrations, which were determined to be below the NMOCD Closure Criteria in each of the submitted soil samples.

A table summarizing laboratory analytical results from confirmation soil samples is provided on the following page:

•

ſ	Incident ID	nCH1815552862
ŀ		
ŀ	District RP	1RP-5082
	Facility ID	30-025-02709
	Application ID	pCH1815554047

	(Concen	trations o	of BTEX, TH	PH and/or	Chloride	in Soil - Co	onfirmatio	on Sample	S	
				SW 846 8021B SW 846 8015M Ext.		E300/4500Cl					
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Floor #1	2/19/19	10'	In-Situ	<0.050	<0.300	<10.0	82.1	82.1	12.5	94.6	192
Floor #2	2/19/19	10'	Excavated	<0.050	7.00	560	3,710	4,270	572	4,842	416
Floor #3	2/19/19	10'	In-Situ	<0.050	<0.300	<10.0	307	307	45.9	352.9	400
Floor #4	2/19/19	10'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
Floor #5	2/19/19	10'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
Floor #6	2/19/19	10'	In-Situ	<0.050	<0.300	<10.0	228	228	23.8	251.8	2,120
Floor #7	2/19/19	10'	Excavated	<0.050	0.391	10.6	1,040	1,051	319	1,369.6	560
Floor #8	2/19/19	10'	Excavated	<0.050	0.450	30.6	1,210	1,241	225	1,465.6	1,840
Floor #9	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	140	140	50.8	190.8	1,340
Floor #10	2/19/19	4'	Excavated	<0.050	0.330	26.0	2,490	2,516.0	990	3,506	2,120
Floor #11	2/19/19	4'	Excavated	<0.050	1.09	17.2	2,100	2,117.2	620	2,737	1,230
Floor #12	2/19/19	4'-12'	In-Situ	<0.050	<0.300	<10.0	895	895	286	1,181	1,680
Floor #13	2/19/19	4'	Excavated	<0.050	34.7	503	3,350	3,853.0	977	4,830	240
Floor #14	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	111	111	50.6	161.6	128
Floor #15	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	479	479	108	587	592
Floor #16	2/19/19	4'-12'	In-Situ	<0.050	<0.300	<10.0	50.4	50.4	18.6	69.0	384
Floor #17	2/19/19	4'	In-Situ	<0.050	0.598	10.4	403	413.4	79.2	492.6	240
Floor #18	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	481	481	98.9	579.9	464
Floor #19	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	50.2	50.2	<10.0	50.2	544
Floor #20	2/19/19	4'	In-Situ	<0.050	<0.300	<10.0	106	106	24.1	130.1	288
NSW 1	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	306	306	132	438	400
NSW 2	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	49.7	49.7	<10.0	49.7	320
ESW 1	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	58.7	58.7	<10.0	58.7	144
ESW 2	2/19/19	n/a	In-Situ	<0.050	0.338	<10.0	344	344	85.7	429.7	272
SSW 1	2/19/19	n/a	Excavated	<0.050	<0.300	<10.0	1,010	1,010	202	1,212	1,070
SSW 2	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	98.9	98.9	52.8	151.7	1,120
WSW 1	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
WSW 2	2/19/19	n/a	In-Situ	<0.050	<0.300	<10.0	148	148	15.7	163.7	832
WSW 3 GC	2/19/19	n/a	Excavated	<0.050	<0.300	11.0	1,270	1,281.0	368	1,649.0	1,220
Floor Stain @ 10'	2/19/19	10'	Excavated	<0.050	6.00	132	2,310	2,442	661	3,103	800
Floor Stain @ 4'	2/19/19	4'	Excavated	<0.050	8.27	147	2,960	3,107	967	4,074	672
Floor 8 B	3/1/19	11.5'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
Floor 7 B	3/1/19	11.5'	In-Situ	-	-	<10.0	265	265	42.2	307.2	-
Floor 10 B	3/1/19	5'	In-Situ	-	-	<10.0	184	184	22.9	206.9	-
Floor 13 B	3/1/19	5'	In-Situ	-	-	<10.0	95.2	95.2	10.4	105.6	-
Floor 11 B	3/1/19	5'	In-Situ	-	-	<10.0	258	258	46.5	304.5	-
Floor 2 B	3/1/19	11.5' 11.5'	In-Situ	-	-	<10.0 <10.0	<10.0	<10.0 <10.0	<10.0 <10.0	<10.0	-
loor Stain @ 11.5' I Floor Stain @ 5'B	3/1/19 3/1/19	5'	In-Situ In-Situ	-	-	<10.0	<10.0 29.6	<10.0 29.6	<10.0	<10.0 29.6	-
FIUUT STAIN @ 5'B	3/1/19	Э	11-51(U	-	-	~10.0	29.0	29.0	×10.0	29.0	-

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Concentrations of BTEX, TPH and/or Chloride in Soil - Confirmation Samples (Cont.)											
				SW 846	SW 846 8021B SW 846 8015M Ext.				E300/4500Cl		
Sample ID	Date	Depth	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SSW 1 B	3/1/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
WSW 3 GC B	3/1/19	n/a	In-Situ	-	-	<10.0	<10.0	736	145	881	-
Floor #2 N. Wall	3/19/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	160
Floor #2 E. Wall	3/19/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
Floor #2 S. Wall	3/19/19	n/a	In-Situ	-	-	<10.0	14.5	14.5	<10.0	14.5	160
Floor #3 E. Wall	3/19/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
Floor #6 S. Wall	3/19/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
Floor #7 E Wall	3/19/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	224
Floor #11 S. Wall	3/19/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	832
Floor #11 E Wall	3/19/19	n/a	In-Situ	-	-	<10.0	11.0	11.0	<10.0	11.0	704
Floor #11 N. Wall	3/19/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
Floor #9 E Wall	3/19/19	n/a	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	704
Floor #13 S Wall	3/19/19	n/a	In-Situ	-	-	<10.0	39.3	39.3	<10.0	39.3	1,070
Floor #13 E Wall	3/19/19	n/a	In-Situ	-	-	<10.0	54.9	54.9	<10.0	54.9	912
	Closure C	riteria		10	50	-	-	1,000	-	2,500	10,000

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #5. Laboratory analytical reports are provided as Attachment #6.

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locallysourced, non-impacted, "like" material. Excavation was backfill was contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

The release was limited to an active caliche production pad. Restoration, final reclamation and re-vegetation will be conducted in accordance with NMAC 19.15.29.13 once the facility is no longer needed for production or subsequent drilling operations.

CLOSURE REQUEST

Impacted soil affected above the NMOCD Closure Criteria was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria. Between February 13, and March 12, 2019, approximately 4,540 cubic yards of impacted soil was transported to an NMOCD-approved disposal facility. The final dimensions of the excavation were approximately 108 Ft. in length, 96 Ft. in width and ranged in depth from 4 Ft. to 11.5 Ft.

Based on laboratory analytical results, field activities conducted to date and conditions at the site, LEA recommends Energen Resources Corporation provide a copy of this Remediation Summary and Closure Report to the NMOCD and request closure be granted to the State B Site.

Respectfully,

Joel W. Lowry Environmental Professional Lowry Environmental & Associates, LLC

Attachments:	Attachment #1-	Figure 1 - Topographic Map
	Attachment #2-	Figure 2 - Aerial Map
	Attachment #3-	Figure 3 - Site & Sample Location Map
	Attachment #4-	Depth to Groundwater Information
	Attachment #5-	Soil Profile
	Attachment #6-	Laboratory Analytical Reports
	Attachment #7-	Photographic Log
	Attachment #8-	Release Notification (FORM C-141)
	Attachment #9-	Field Data

LIMITATIONS

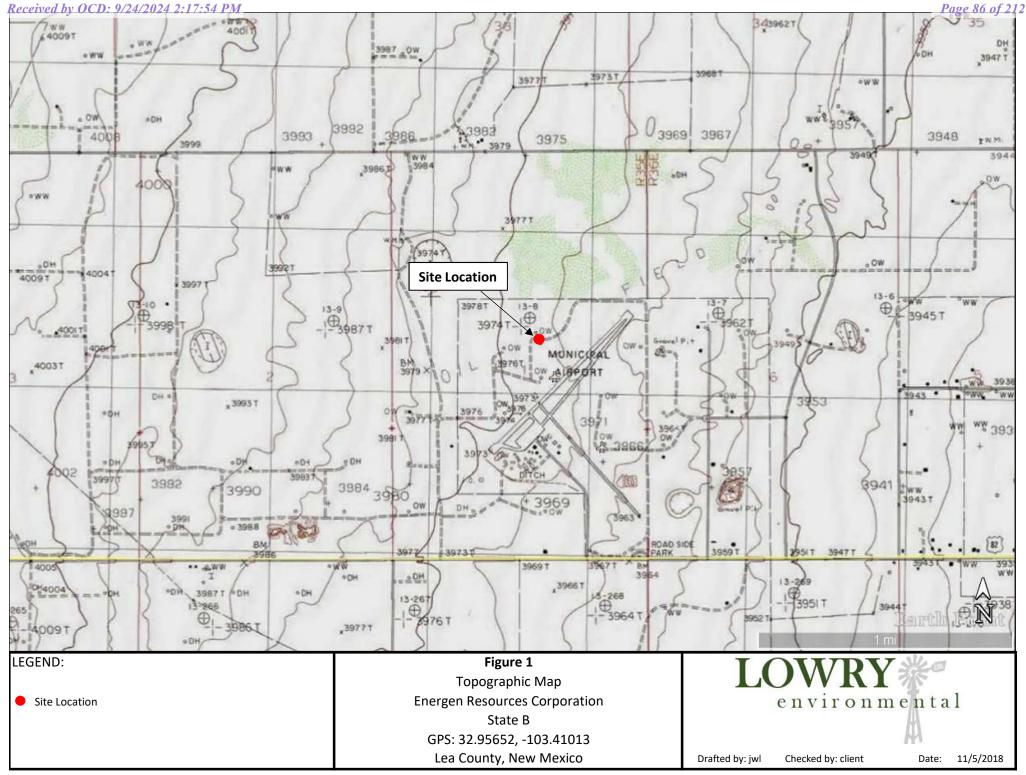
This document has been prepared on behalf of Energen Resources Corporation. Use of information contained in this report, including exhibits and attachments, by any other party without the consent of LEA and/or Energen Resources Corporation is prohibited.

This document has been prepared in a professional manner, using the degree of skill and care exercised by similar environmental professionals. LEA notes that the facts and conditions referenced in this document may change over time and that the conclusions and recommendations are only applicable to the facts and conditions as described at the time this document was prepared.

LEA has prepared this report to the best of its ability. No other warranty, expressed or implied, is made or intended.

ATTACHMENT #1

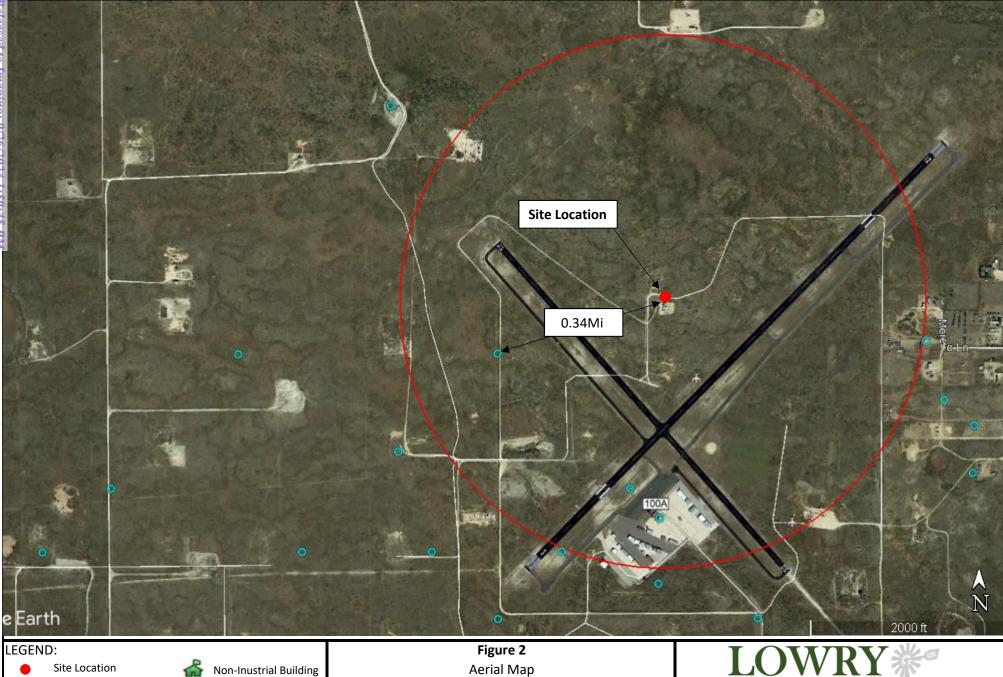
Figure 1 - Topograpic Map



Released to Imaging: 9/26/2024 1:59:45 PM

ATTACHMENT #2

Figure 2 - Aerial Map



- Site Location
- Fresh Water Well 0
- 100-Year Floodplain High/Critical Karst
- Subsurface Mine 8 1/2 Mile Radius \bigcirc

Aerial Map **Energen Resources Corporation** State B GPS: 32.95652, -103.41013 Lea County, New Mexico



5

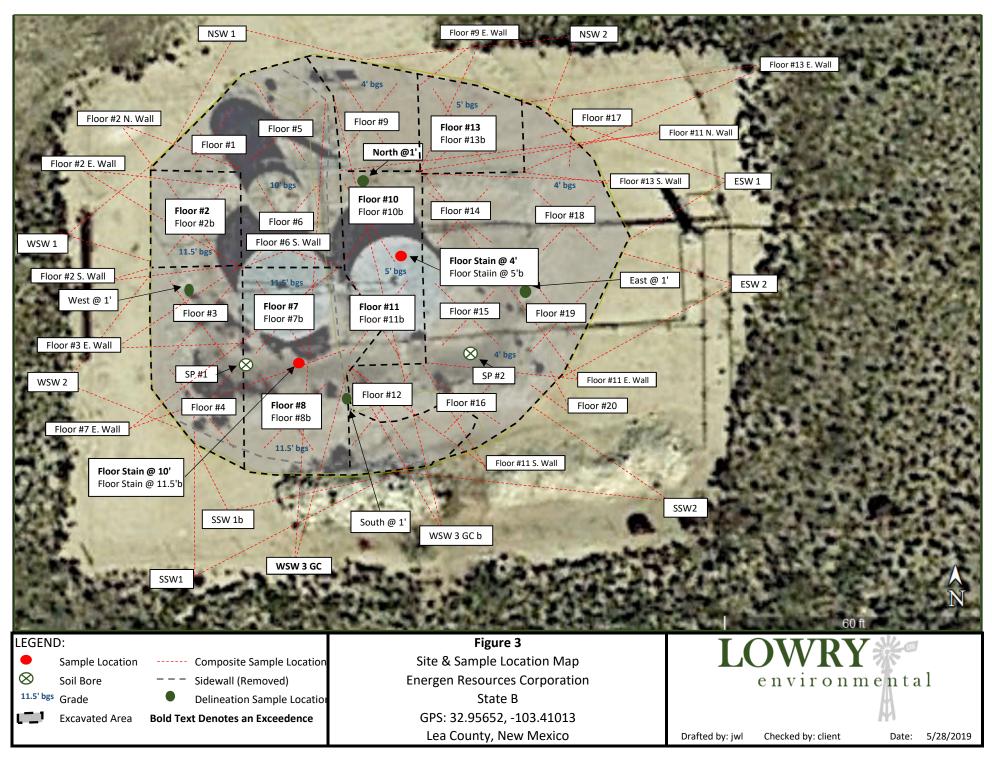
9 9/24

12024

PM

ATTACHMENT #3

Figure 3 - Site & Sample Location Map

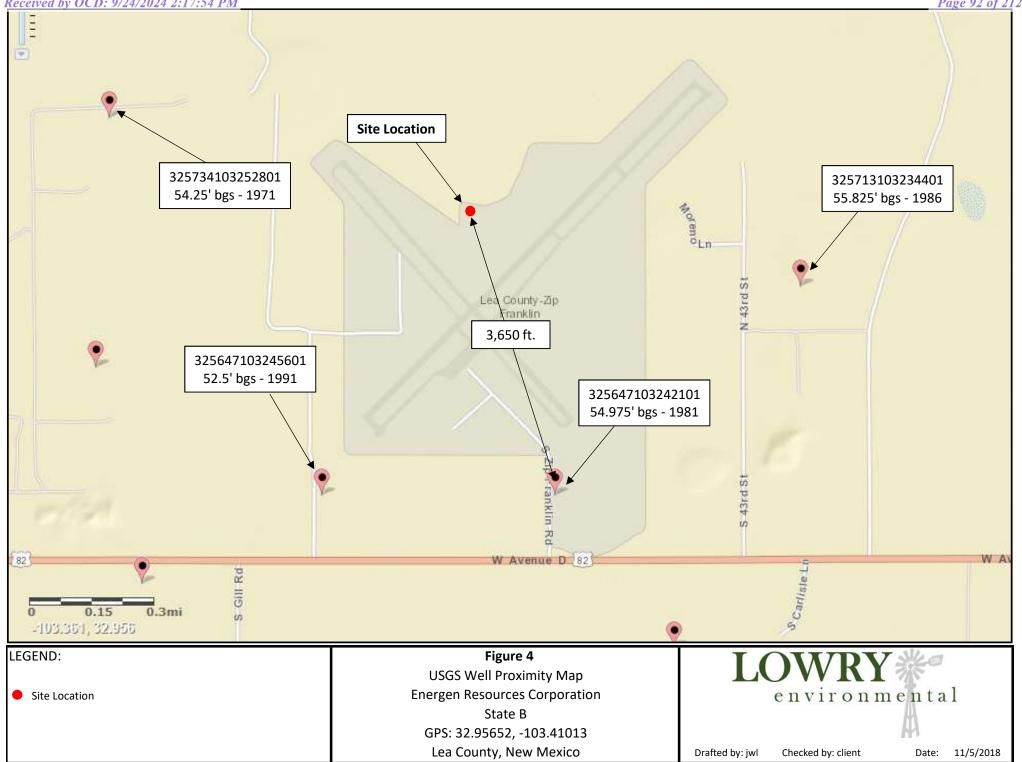


Page 90 of 212

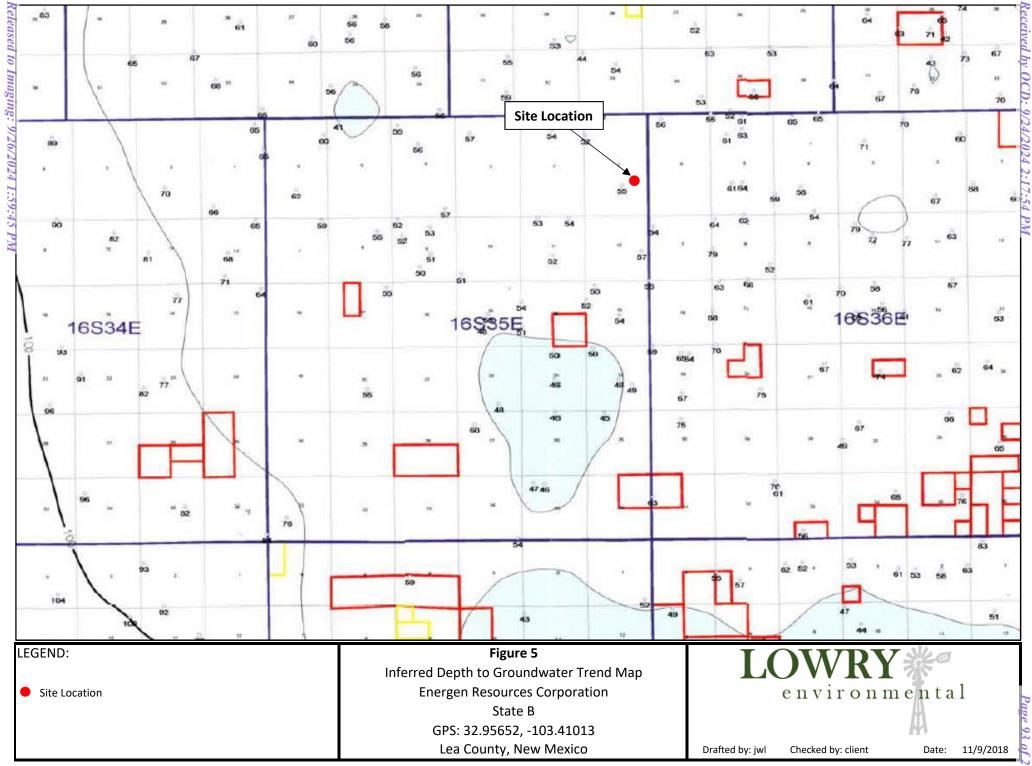
ATTACHMENT #4

Depth to Groundwater Information

Received by OCD: 9/24/2024 2:17:54 PM



Released to Imaging: 9/26/2024 1:59:45 PM





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	\checkmark United States	\sim	GO

Click to hideNews Bulletins

- <u>Please see news on new formats</u>
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325713103234401

Minimum number of levels = 1

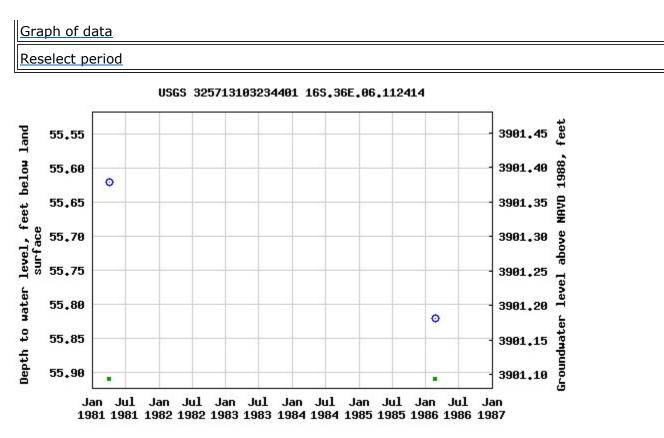
Save file of selected sites to local disk for future upload

USGS 325713103234401 16S.36E.06.112414

Available data for this site Groundwater: Field measurements \checkmark GO Lea County, New Mexico Hydrologic Unit Code --Latitude 32°57'13", Longitude 103°23'44" NAD27 Land-surface elevation 3,957 feet above NAVD88 The depth of the well is 102 feet below land surface. This well is completed in the Ogallala Formation (1210GLL) local aquifer. **Output formats**

<u>Table of data</u>

Tab-separated data



Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey



Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2018-11-05 12:36:20 EST 1.08 0.94 nadww01



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	\checkmark United States	\sim	GO

Click to hideNews Bulletins

- <u>Please see news on new formats</u>
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325647103242101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325647103242101 16S.35E.01.41120

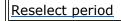
Available data for this site Groundwater: Field measurements \checkmark GO Lea County, New Mexico Hydrologic Unit Code --Latitude 32°56'47", Longitude 103°24'21" NAD27 Land-surface elevation 3,968 feet above NAVD88 This well is completed in the Ogallala Formation (1210GLL) local aquifer.

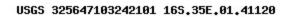
Output formats

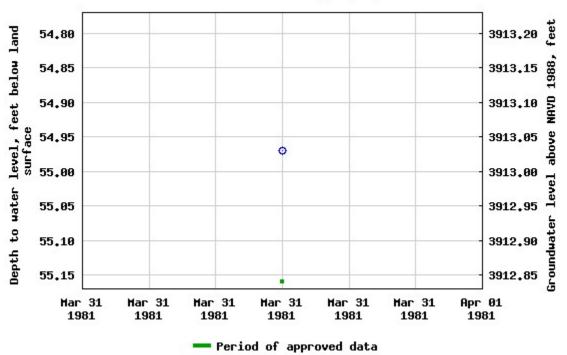
lable of data

Tab-separated data

<u>Graph of data</u>







Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels



URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?
Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2018-11-05 12:38:42 EST 7.04 0.9 nadww01



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	\checkmark United States	\sim	GO

Click to hideNews Bulletins

- <u>Please see news on new formats</u>
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325647103245601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325647103245601 16S.35E.01.131312

 Available data for this site
 Groundwater: Field measurements
 ✓
 GO

 Lea County, New Mexico
 Hydrologic Unit Code 12080003

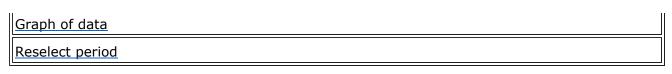
 Latitude 32°56'47", Longitude 103°24'56" NAD27

 Land-surface elevation 3,976 feet above NAVD88

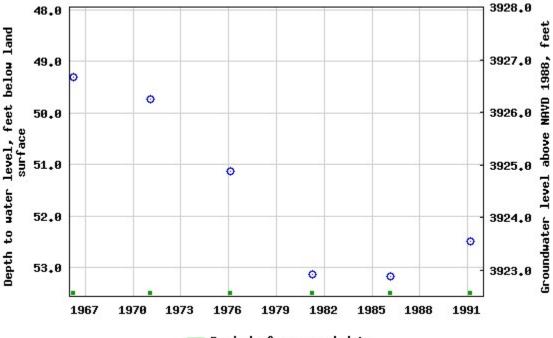
 The depth of the well is 75 feet below land surface.

 <

Tab-separated data



USGS 325647103245601 165.35E.01.131312



Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey



Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2018-11-05 12:40:26 EST 1 0.88 nadww01



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		
Groundwater	✓ United States	\sim	GO

Click to hideNews Bulletins

- <u>Please see news on new formats</u>
- UPDATE, 11/2: The USGS continues to make progress on restoring all of its gages. As of 3 p.m. Friday, November 2, less than 3 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. The USGS will continue to work through the weekend to bring the streamgages back online. Read more
- Full News 🔊

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325734103252801

Minimum number of levels = 1

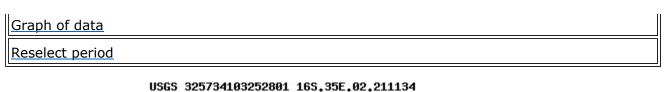
Save file of selected sites to local disk for future upload

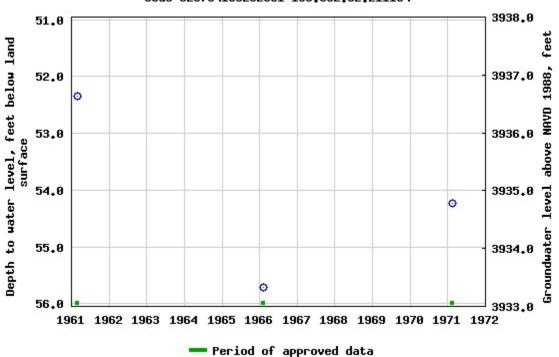
USGS 325734103252801 16S.35E.02.211134

Available data for this site Groundwater: Field measurements \checkmark GO Lea County, New Mexico Hydrologic Unit Code 12080003 Latitude 32°57'34", Longitude 103°25'28" NAD27 Land-surface elevation 3,989 feet above NAVD88 The depth of the well is 100 feet below land surface. This well is completed in the Ogallala Formation (1210GLL) local aquifer. **Output formats**

<u>Table of data</u>

Tab-separated data





Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey



Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2018-11-05 12:41:54 EST 1.02 0.89 nadww01

A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orpha C=the fil closed)	ned,	1		•				7 2=NE est to lar	3=SW 4=S	E) JAD83 UTN	1 in 1	meters)	(In feet)		
	closedy	POD Sub-		Q	Q	Q				<i>g</i> ost) (1			,	,	W	ater
POD Number	Code	basin L	County LE					Tws 16S	Rng 35E	X 648409	Y 3647475*		DistanceDepth 228	WellDepthW 120	Vater Co 80	lumn 4(
L 05904	R	L	LE	Ŧ	2		01	16S	35E	648116	3647369*		539	120	70	80
L 03357		L	LE			•	01	165	35E	648532	3646966*		579	120	60	60
L 03420		L	LE				01	16S	35E	648532	3646966*		579	120	60	60
L 03663 POD2	R	L	LE	1	1	4	01	16S	35E	648624	3646878*		659	164	60	104
												Aver	age Depth to Water:		66 fee	t
											Minimum Depth:		:	60 feet		
													Maximum Depth		80 fee	t
Record Count: 5																
UTMNAD83 Radius	Search (in	meters)	<u>):</u>													
Easting (X): 648	628.7		North	ing	(Y)):	3647	537.3			Radius: 8	05				
*UTM location was derived	fuom DI CC	soo Uoln														

ATTACHMENT #5 Soil Profile

Received by OCD: 9/24/2024 2:17:54 PM

SOIL PROFILE

Site Name: Stak B

Date: 7/31/2018

Description		Depth (ft. bgs)
<u> </u>	auran marca	1
Hardpan		2
	man	3
		4
		5
		6
		. 7
		. 8
		. 9
<u> </u>		10
		. 11
		. 12
		. 13
		14
A		15
Caliche w/ Sand		16
		17
		18
		19
		20
		21
		22
		23 24
·		24
		25
		20
		28
		29
		30
		31
		32
		33
		34
		35
		36
		37
		38
		39
		40

luf2

Received by OCD: 9/24/2024 2:17:54 PM

SOIL PROFILE

Site Name: State B

Date: 7/31/2018

Description		Depth (ft. bgs)
		41
Caliche w/ Sand		2
		3
		4
		5
 		6
 		7
 		8
 		9
 		50
 		1
 	monaaa	2
 Brown Sand		53
 		4
 		5
 		6
 		7
 		8
 		9
 		0
 		i \$\varphi\$ 1
 		2
 	-monto- TD	3
 		4
 		5
 		6 7
 		8
 		9
 		0
 		1
 		2
 		3
 		4
 		5
 		6
 		7
 		8
 		9
 		0

20f2

ATTACHMENT #6

Laboratory Analytical Reports



August 01, 2018

STEVE TAYLOR CAPROCK SERVICES P.O. BOX 457 LOVINGTON, NM 88260

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 07/31/18 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ SURFACE (H802084-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.79	1.00	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	38.3	1.00	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	53.6	1.00	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	212	3.00	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	307	6.00	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/01/2018	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*	2530	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	29500	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	3790	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	321	% 41-142	2						
Surrogate: 1-Chlorooctadecane	1110	% 37.6-14	7						

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 claims based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Libratorities.

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 3' (H802084-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	389	50.0	08/01/2018	ND	184	91.9	200	5.30	
DR0 >C10-C28*	4400	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	447	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	140	% 41-142							
Surrogate: 1-Chlorooctadecane	243	% 37.6-14	7						

Sample ID: SP 1 @ 6' (H802084-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1140	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	6980	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	837	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	172	% 41-142							
Surrogate: 1-Chlorooctadecane	308	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 9' (H802084-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	112	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	1490	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	204	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	98.6	% 41-142							
Surrogate: 1-Chlorooctadecane	137	% 37.6-14	7						

Sample ID: SP 1 @ 12' (H802084-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	31.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	81.0	% 41-142							
Surrogate: 1-Chlorooctadecane	76.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 15' (H802084-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	0.054	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	0.062	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	0.168	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	47.4	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142	2						
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14							

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 18' (H802084-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2018	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	21.2	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.5	% 41-142							
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

Sample ID: SP 1 @ 21' (H802084-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	95.3	% 41-142							
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 24' (H802084-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	198	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	68.5	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	87.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	84.2	% 37.6-14	7						

Sample ID: SP 1 @ 27' (H802084-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	309	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	27.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.4	% 41-142							
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 1 @ 30' (H802084-11)

BTEX 8021B	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	90.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	82.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ SURFACE (H802084-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	8.41	1.00	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	6.84	1.00	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	142	3.00	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	157	6.00	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	123	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	877	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	7500	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	601	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	156	% 41-142	2						
Surrogate: 1-Chlorooctadecane	384	% 37.6-14	_						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 3' (H802084-13)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2680	50.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	12300	50.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	1430	50.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	247	% 41-142	,						
Surrogate: 1-Chlorooctadecane	503	37.6-14	7						

Sample ID: SP 2 @ 9' (H802084-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	33.3	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	556	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	45.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	93.7	% 41-142	2						
Surrogate: 1-Chlorooctadecane	113	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 15' (H802084-15)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.2	% 41-142	2						
Surrogate: 1-Chlorooctadecane	84.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 21' (H802084-16)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.0	% 41-142							
Surrogate: 1-Chlorooctadecane	83.3	% 37.6-14	7						

Sample ID: SP 2 @ 27' (H802084-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	184	91.9	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	174	86.9	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	76.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	72.3	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 33' (H802084-18)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	30.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	388	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	68.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	81.7	% 41-142							
Surrogate: 1-Chlorooctadecane	89.9	% 37.6-14	7						

Sample ID: SP 2 @ 39' (H802084-19)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	66.4	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	14.8	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142	2						
Surrogate: 1-Chlorooctadecane	83.6	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 45' (H802084-20)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	29.1	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	89.7	% 41-142	2						
Surrogate: 1-Chlorooctadecane	83.0	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 48' (H802084-21)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	49.6	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.7	% 37.6-14	7						

Sample ID: SP 2 @ 54' (H802084-22)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	34.5	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	88.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	82.8	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 57' (H802084-23)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	201	100	200	2.41	
DRO >C10-C28*	50.6	10.0	08/01/2018	ND	199	99.6	200	5.75	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	82.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	78.0	% 37.6-14	7						

Sample ID: SP 2 @ 60' (H802084-24)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DR0 >C10-C28*	37.6	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	97.6	% 41-142							
Surrogate: 1-Chlorooctadecane	94.7	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	07/31/2018		Sampling Date:	07/31/2018
Reported:	08/01/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	ENERGEN			

Sample ID: SP 2 @ 63' (H802084-25)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/01/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	144	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	41.5	10.0	08/01/2018	ND					
Surrogate: 1-Chlorooctane	99.3	% 41-142	2						
Surrogate: 1-Chlorooctadecane	98.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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.
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 SM4500CI-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

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



New concerned and the second

Received by OCD: 9/24/2024 2:17:54 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Commons Norma	(575) 393-2326 FAX (575) 393-24	176		-			- all and a second	n of Note Street	telesenter of													
Company Name	Caprock Services								the second s	月월(0)					 ANALY	SIS	REG	QUES	ST			
Project Manage	r: Stave Taylor						P.0	0. #:					111-11-									
Address: PC	Bax 457						Co	ompa	ny:E	nersen												
City: Loving	for State: WW	1 Zip	o: 8	8820	66		At	tn: 7	OMM	1 York									- 1			
	5-704-2718 Fax #:									RU Bot								-				
Project #:	Project Own	er: /	The.	igen						ndle												e
Project Name:	State "B"	Ð	0							Zip: 79_3	360											
Project Location	Au									32)-209-											2	
Sampler Name:	Steve Taylor							x #:														
FOR LAB USE ONLY				[MATI	RIX		PRE	SERV	SAMPL	NG											
Lab I.D. #802084	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER		OIL	OTHER :		ICE / COOL OTHER :		TIME	Chler ide	HUL	B-Tex								
1	SPI Surface	6	1		X				X	7-31-18	8:15 AM	Х	X	X						Processor 1		
2	SPI Q3' SPI Q 6	6	1		×			-	×	7-31-18	S: 3UHM	X	X									
3	SPICE	6	1		X	_			×	7-31-18	8:45 AM	X	X									
4	SPI & q'	6	1		X		_		X	7-31-18	9:05 AM	X	X									
5	SPIC121	6	1		X				7	7-31-18	9 BAR	X	X									
6	SIC15'	6	. 1		X				>	7-3-18	9:10AM	X	X	X	-							
1	SPI @ 18'	6	L		×		_	,	7		9:20 AM		×									
8	SPIEZI	6	11		X				7		9: Zo Am		X.		 							
7	S1624	6	1		X	_			7	Concernant in the second second	9:30 AM	X	X									
PLEASE NOTE: Liability a	SPIP27	6	1		X				X	7-31-18	9:35 AM	X	X									

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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By:		Received By:	COLORIDATION COLORIDATI	Phone Result:	□ Yes		Add'I Phone #:	
	12110	And: Mara		Fax Result:	Yes	🗆 No	Add'l Fax #:	
the della	Times:25	Men sur	DOIL	REMARKS:				
Relinguished By:	Date:	Received By:			1			
	g-	0		K	119	H		
	Time:				inc			
Delivered By: (Circle One) #	5	Sample Condition CI	ECKED BY:		25		2	
	nolum.	Cool Intact	(Initials)				5.	
Sampler - UPS - Bus - Other: 4.	3014.74	P Yes Yes	UAL					1000
		No No	70				и	•



Received by OCD: 9/24/2024 2:17:54 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Company Name	Caprock Services								2]]耳马	10						ANA	LYSI	S RE	QUE	ST		
Project Manage	. Ster Tuylor							P.O. #	#:					1				1		T	Γ		Τ
Address: PU	Bux 457							Comp	bany:	Ener	ser	L			l.								
	gton State: NI	M Zip	p: {	38	210	0		Attn:	Tor	nmy	York	Ŀ	1										
	704-2718 Fax #:							Addre	ess: /	H.R.Y	Bix	546A											
Project #:	Project Own	ner: ∠	En	ers	can			City:	Sen	1: Note	5					6							
Project Name:				0						Zip:		360									-		
Project Location	n:											2483		1								(1 6)	1
Sampler Name:	Stare Tuylor							ax #		ante anno an Anno													
FOR LAB USE ONLY			Τ	1_	N	IATRI	X	PF	ESER	V. SA	MPL	ING											
Lab I.D. H902094	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL	AD OTHER:	ATE	TIME	Chlorick	Hdl	B Tex								
11	SPIE 30	6				X			X		1-18	9.45 AM	X	X	X						1		1
12	SPIR 30' SPAR Surface	6	1			x			X			8: JOAM		X	X								
13	SPZE 3'	6	1			×			x			9:43 HM		X									
14	SP20 91	6	1		1	×			1			9:45 AM											
15	SPZP 151	6	1	-		×			7			9:50 AM			X	-	ļ		ļ				
	SPZEZI	G	100			<u>}</u>		_	7			9:58An		X	ļ		-		ļ				
17	SP2E27	6	1			X			×			10:05 HM			-					ļ		 	
19	572@ 33` SPZQ 39`	-6				×		_	X			10:30 AM		×,							-	 	
17	SPZU 39 SPZU 45`	G	ł	-		×			X			10:36 MM 10:50 AM		X	X		-					 	
	DILL 95 nd Damages. Cardinal's liability and client's exclusive remedy	10	L'	<u> </u>	1.00	1			11											1			

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 30 days after completion of the applica service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business Interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

tes or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

	normance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated re	easons or otherwise.		
Relinquished By:	Date: 1/ 1 Repeived By:	Phone Result:	Yes No Add'l Phone #:	
11 //	13110	Fax Result:	Yes No Add'I Fax #:	
Mt. The	Time: 26 ///////////////////////////////////	REMARKS:		
Hove Myll	3. 2 CALLE STORE	•		
Relinquished By:	Date: Received By:	1		
	Time:	1	1ush.	
	14-76		Lush.	
Delivered By: (Circle One)	Sample Condition CHECKED BY:	8		
	Cool Intact (nifials)			1-
Sampler - UPS - Bus - Other:	4,30, 4,750 Pres res			
	No No		A second s	•



Received by OCD: 9/24/2024 2:17:54 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 88 (575) 393-2326 FAX (575) 393-243																									
Company Nam	e: Paprock Services									B	//	470						-	ANA	LYS	IS R	EQU	EST			1122
Project Manage	er: Steve Tuyla							P.C). #:									T	T	T	T	T	<u> </u>		1	1
								Co	mpa	ny: ¿	En	leger	r													
City: Louis	Box US 7 yolon State: //M - 704-2718 Fax #:	Zip	: 2	58	260			Att	:n: -	701	MI	wy y	<i>ark</i>				1									
Phone #: 575	- 704-2718 Fax #:							Ad	dres	s:He	-Z'4	4 54	16 H													
Project #:	Project Owne	r: 2	En	ing	vL			City	y: 5	em	in	ick														
Project Name:	State B'	9						Sta	ite:	TX	Zi	ip:793	3.6				3 /						2			
Project Locatio								Pho	one	#:43	32-	209	-248-	3											.9	
Sampler Name:	Suce Tufle							-	c #:		-															
FOR LAB USE ONLY		ď.		-	MA	TRI	(-	PRE	SERV	4	SAMPL	ING		1				1						2	
Lab I.D. HS02084 	Sample I.D. <i>SP2 Q 48</i> ' <i>SP2 Q 54</i> ' <i>SP2 Q 54</i> '	C C C C C C C OMP	# CONTAINERS	GROUNDWATER	X X X SOIL	OIL	SLUDGE	OTHER:		X X X ICE / COUL	7	DATE 7-31-18 231-18	TIM 10:55 11:00 11:10	Ан Дм	< XX charida	Here x x x	B. Tar	×~/ _/	No	51	K	1.7		-		
2324	SP2 8 57'	6	1		X	1		1	/	×		A A A A A A A A A A A A A A A A A A A	11:151		N	×	1		-			-		-		
8423	SP20 60 ' SP20 63 '	6	i		X					×			11:20		\times	×		1	1	-	2	1		-		1
2524	SP2063	6	1		<				Ň	x			11:30		X	X	K								-	
	-		Chi Archure										-													
		-						_	_			2							-							
				-				-			-	2								<u>×</u>					Į.	-
service. In no event shall C	Ind Damages. Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall be cardinal be liable for incidental or consequental damages, includin ing out of or related to the performance of services hereunder by (y; y; http://www.consequence.com/consequence/consequence/consequence/consecutive/cons	deemed g withou Cardinal	l waive t limite , regar	d unle tion, b	ss made i usiness in f whether	n writin Ierrupt	ng and r	ecelv	red by C	ardinal	within	1 30 days aft	er completio	n of the bsidiari nerwise Res	e applicat ies, 	ole □ Ye □ Ye		No	Add'l		#:	J				I
Relinquished B	y:	Re	ceiv	Ved I	L By:	C	A	e	N	J	H	2	REMA													
	: (Circle One) # 75 - Bus - Other: 4.32/ 4.7	25	00	C	ample Cool Yes	Inta	ct 🖌	n	c	HEC	KED	BY: ≯	- E				h	rs	h'.		2					٠



November 08, 2018

STEVE TAYLOR CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 11/02/18 10:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	11/02/2018		Sampling Date:	11/02/2018
Reported:	11/08/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	ENERGEN			

Sample ID: EAST @ 1' (H803144-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	0.199	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/06/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.4	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	406	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	62.5	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	95.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	98.8	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	11/02/2018		Sampling Date:	11/02/2018
Reported:	11/08/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	ENERGEN			

Sample ID: NORTH @ 1' (H803144-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	0.085	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	0.247	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	0.332	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	480	16.0	11/06/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	11.4	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	2300	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	482	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	95.8	% 41-142							
Surrogate: 1-Chlorooctadecane	173 9	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	11/02/2018		Sampling Date:	11/02/2018
Reported:	11/08/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	ENERGEN			

Sample ID: WEST@ 1' (H803144-03)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	<0.150	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	11/06/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2018	ND	218	109	200	8.04	
DRO >C10-C28*	60.1	10.0	11/03/2018	ND	224	112	200	4.73	
EXT DRO >C28-C36	36.6	10.0	11/03/2018	ND					
Surrogate: 1-Chlorooctane	100	% 41-142	2						
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES STEVE TAYLOR P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	11/02/2018		Sampling Date:	11/02/2018
Reported:	11/08/2018		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	ENERGEN			

Sample ID: SOUTH @ 1' (H803144-04)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2018	ND	2.07	104	2.00	0.283	
Toluene*	<0.050	0.050	11/07/2018	ND	1.97	98.7	2.00	0.860	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.81	90.6	2.00	0.418	
Total Xylenes*	<0.150	0.150	11/07/2018	ND	5.82	97.1	6.00	0.330	
Total BTEX	<0.300	0.300	11/07/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	11/06/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2018	ND	184	92.2	200	2.91	
DRO >C10-C28*	195	10.0	11/05/2018	ND	208	104	200	1.90	
EXT DRO >C28-C36	119	10.0	11/05/2018	ND					
Surrogate: 1-Chlorooctane	86.4	% 41-142							
Surrogate: 1-Chlorooctadecane	91.6	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 9/24/2024 2:17:54 PM

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	40				
Company Name: Coprock Services		3/15.50	 A second construction program and a second construction of a second consecond construction of a second construction of a second const	ANALYSIS REQUEST	
N	9	P.O. #:			
57	0	Company: Energen			
ng for State: N/M	Zip: 88260 A	Attn: Tommy Yurk			
Phone #: (575) 704-2718 Fax #:	A	Address: HORY BOX SYCH	SY6A		
		City: Seninole			
Project Name:	2	State: 7 Zip: 79366	60		
Project Location: State B		Phone #: (432) 209-2483	2483		
R		Fax #:			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING			
Lab I.D. Sample I.D.	G)RAB OR (C)OMF CONTAINERS ROUNDWATER VASTEWATER SOIL DIL SLUDGE DTHER :	ACID/BASE: CE / COOL DTHER :	The Chlorick	B-Tex	
$ \mathcal{L}_{a} st \rho \mathcal{I} $	- ×	× //-2-18	\vdash	×	
2 North Q I	6 1 ×	× 11-2-18 X	S: 10 AM × × 7	X	
3 west @ 1	611 7	8 81-2-11 ×	S:15AM X X X	×	
South	6 ×	11-2-18	8:20HW X X X	· ·	
a constant of the instant building the strain of the strain is strain to be an object to the strain the strain of	av Join adding whether based in contract or	tort shall be limited to the amount peld be	the client for the		
analyses. All characteristics including those for negligence and any other cause whateoever, shall be doemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All characteristics including those for including the state of the state of the state of profits incurred by client, its autoidianties, apprice. In no event shall Cardinal be liable for including that or consequential damages, including which ull instants, business interruptions, less of use, or lass of profits incurred by client, its autoidianties, apprice. In no event shall Cardinal be liable for including the consequential damages, including which ull instants, business interruptions, less of use, or lass of profits incurred by client, its autoidianties, apprice and the state of the applicable of the profits of the profits of the state of the applicable based usons and the above apprice.	ause whatsoever shall be deemed walved unless made in writing and received by Cardi joenial damages. Including without invlation, business interruptions, less of use, or any of soviewer hereunder by Confignt invandiess of whether such claim is based upon any	sceived by Cardinal within 30 days after co s of use, or loss of profits incurred by clien based upon any of the above stated reason	fler completion of the applicable y client, its subsidiaries, reasons or otherwise.		
Relinquished By: Date: Date:	Received By:	111	Phone Result: Ves Fax Result: Yes	No Add'I Phone #: No Add'I Fax #:	
Relinquished By:	Received By:	What yo	REMARKS:		
Time:	Sample Condition	n CHECKED BY:			
Sampler - UPS - Bus - Other: 10 10	The Ves Pres	٨		•	
e r					

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

.



February 25, 2019

JOEL LOWRY CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: ENERGEN STATE B

Enclosed are the results of analyses for samples received by the laboratory on 02/20/19 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #1 (H900653-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	178	89.0	200	2.40	
DRO >C10-C28*	82.1	10.0	02/22/2019	ND	184	92.2	200	8.66	
EXT DRO >C28-C36	12.5	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	96.5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #2 (H900653-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	0.751	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	2.04	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	4.21	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	7.00	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	560	10.0	02/22/2019	ND	178	89.0	200	2.40	
DRO >C10-C28*	3710	10.0	02/22/2019	ND	184	92.2	200	8.66	
EXT DRO >C28-C36	572	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	137	% 41-142	2						
Surrogate: 1-Chlorooctadecane	216	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #3 (H900653-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	178	89.0	200	2.40	
DRO >C10-C28*	307	10.0	02/22/2019	ND	184	92.2	200	8.66	
EXT DRO >C28-C36	45.9	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	95.1	% 41-142							
Surrogate: 1-Chlorooctadecane	114 9	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #4 (H900653-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	<10.0	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	88.0	% 41-142	,						
Surrogate: 1-Chlorooctadecane	91.8	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #5 (H900653-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	<10.0	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	94.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	93.6	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #6 (H900653-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	02/22/2019	ND	416	104	400	3.77	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	228	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	23.8	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	92.3	% 41-142	2						
Surrogate: 1-Chlorooctadecane	102 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #7 (H900653-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	0.067	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	0.100	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	0.224	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	0.391	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.6	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	1040	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	319	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	96.0	% 41-142	2						
Surrogate: 1-Chlorooctadecane	147	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #8 (H900653-08)

BTEX 8021B	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	0.100	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	0.319	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	0.450	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	419	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	30.6	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	1210	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	225	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	109	% 41-142	2						
Surrogate: 1-Chlorooctadecane	154	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #9 (H900653-09)

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	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	02/22/2019	ND	416	104	400	3.77	
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	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	140	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	50.8	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	92.2	% 41-142	2						
Surrogate: 1-Chlorooctadecane	98.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #10 (H900653-10)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	0.129	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	0.201	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	0.330	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	149 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	26.0	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	2490	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	990	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	96.7	% 41-142	2						
Surrogate: 1-Chlorooctadecane	283	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #11 (H900653-11)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	0.260	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	0.303	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	0.528	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	1.09	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	133	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.2	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	2100	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	620	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	97.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	249	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #12 (H900653-12)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	0.051	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	895	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	286	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	91.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	140 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #13 (H900653-13)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	1.33	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	3.32	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	30.1	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	34.7	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	503	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	3350	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	977	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	249	% 41-142	2						
Surrogate: 1-Chlorooctadecane	336	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #14 (H900653-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	2.05	102	2.00	3.13	
Toluene*	<0.050	0.050	02/22/2019	ND	2.17	109	2.00	3.60	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	2.22	111	2.00	5.09	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	6.20	103	6.00	4.26	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	111	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	50.6	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	93.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	103 9	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #15 (H900653-15)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2019	ND	222	111	200	3.16	
DRO >C10-C28*	479	10.0	02/21/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	108	10.0	02/21/2019	ND					
Surrogate: 1-Chlorooctane	89.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	120 9	% 37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #16 (H900653-16)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	50.4	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	18.6	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	91.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	96.8	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #17 (H900653-17)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	0.091	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	0.507	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	0.598	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.4	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	403	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	79.2	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	89.9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #18 (H900653-18)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	481	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	98.9	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	89.8	% 41-142							
Surrogate: 1-Chlorooctadecane	119 %	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #19 (H900653-19)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	50.2	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	89.2	% 41-142	2						
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR #20 (H900653-20)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	106	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	24.1	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	91.2	% 41-142	2						
Surrogate: 1-Chlorooctadecane	97.2	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR STAIN @ 10' (H900653-21)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	0.653	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	1.33	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	4.02	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	6.00	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	132	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	2310	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	661	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	140	% 41-142	2						
Surrogate: 1-Chlorooctadecane	260	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR STAIN @ 4' (H900653-22)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	0.572	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	2.28	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	5.42	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	8.27	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	147	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	2960	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	967	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	157 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	300 9	% 37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: NSW 1 (H900653-23)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	222	111	200	3.16	
DRO >C10-C28*	306	10.0	02/22/2019	ND	220	110	200	5.83	
EXT DRO >C28-C36	132	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	96.0	% 41-142							
Surrogate: 1-Chlorooctadecane	114 9	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: NSW 2 (H900653-24)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	49.7	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	98.3	% 41-142	2						
Surrogate: 1-Chlorooctadecane	106 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: ESW 1 (H900653-25)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/22/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	58.7	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	84.0	% 41-142							
Surrogate: 1-Chlorooctadecane	86.3	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: ESW 2 (H900653-26)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	0.068	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	0.270	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	0.338	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/22/2019	ND	416	104	400	8.00	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	344	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	85.7	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	98.6	% 41-142	2						
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: SSW 1 (H900653-27)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	02/22/2019	ND	416	104	400	8.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	1010	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	202	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	106 9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	155 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: SSW 2 (H900653-28)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	02/22/2019	ND	416	104	400	8.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	98.9	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	52.8	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	92.5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	97.0	% 37.6-14							

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: WSW 1 (H900653-29)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/22/2019	ND	416	104	400	8.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	96.0	% 41-142							
Surrogate: 1-Chlorooctadecane	98.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: WSW 2 (H900653-30)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	<0.050	0.050	02/22/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/22/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/22/2019	ND	416	104	400	8.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	148	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	15.7	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	98.5	% 41-142							
Surrogate: 1-Chlorooctadecane	105 9	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		CAPROCK SERVICES JOEL LOWRY P.O. BOX 457 LOVINGTON NM, 88260 Fax To:		
Received:	02/20/2019		Sampling Date:	02/19/2019
Reported:	02/25/2019		Sampling Type:	Soil
Project Name:	ENERGEN STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: WSW 3 GC (H900653-31)

BTEX 8021B	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/23/2019	ND	1.90	94.8	2.00	0.515	
Toluene*	<0.050	0.050	02/23/2019	ND	1.93	96.4	2.00	1.57	
Ethylbenzene*	0.068	0.050	02/23/2019	ND	1.93	96.4	2.00	0.0211	
Total Xylenes*	<0.150	0.150	02/23/2019	ND	5.56	92.6	6.00	0.0857	
Total BTEX	<0.300	0.300	02/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	02/22/2019	ND	416	104	400	8.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.0	10.0	02/22/2019	ND	205	103	200	1.97	
DRO >C10-C28*	1270	10.0	02/22/2019	ND	212	106	200	3.67	
EXT DRO >C28-C36	368	10.0	02/22/2019	ND					
Surrogate: 1-Chlorooctane	93.4	% 41-142	2						
Surrogate: 1-Chlorooctadecane	164 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 9/26/2024 1:59:45 PM

Received by	OCD:	9/24/2024	2:17:54 PM
-------------	------	-----------	------------

76	† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	ges to	en chan	fax writt	ges. Please	I chang	erba	pt v	acce	not a	canr	nal	ardi	+ 0		:0	FORM-006 R 2.0	٢
					M	4		Yes						9	0/ #q-	Bus - Other: 4,40	Sampler - UPS -	S
			-		CHECKED BY:	CHEC	-	Sample Condition	e Condi	iple (Samp			-	-	(Circle One)	Delivered By: (Circle One)	-
type L. D diamond backen way . com	Odiar	M	YOV I	4									\$		Time:	C		;
			1001						4	0	Received By:	ved	ece	71	Date:		3	D (
ental.com	n	lowr	ioel@	REMARKS:	HU	MOGH	2	P	to		5	2		3-	14.04	\$	no how)
Add'I Fax #:	S O No	U Yes		Fax Result:	\$	-		-	-		BY	Received By:	ece		Datein D/		Relinquished By:	R
Add'I Phone #:		T Yes	1	is or otherwise.	ich claim is based upon any of the above stated reasons or otherwise	any of the a	d upon	is base	n claim i	er such	f wheth	liess of	regard	Cardinal	al damages, including rervices hereunder by	service. In no event shall Cardinal be lable for incidental or consequential damages, including without initiation, sourcessions inverses or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	service. In no event shall Cardinal be liable for inciden affiliates or successors arising out of or related to the	affili
			plicable	pletion of the ap	30 days after com incurred by client,	rdinal within	d by Ca	receive	ng and r	in writin	made in	unless	waived	deemed	whatsoever shall be	PLEASE NOTE: Liability and Damages. Cardinal's lability and clent's exclusive remedy for any came wave uncommony on your work or completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in whiting and tecevice by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless intervation have on loss of reoffs incurred by client, its subsidiaries,	analyses. All claims including the	PLE
	,	>		the client for the	2/13/13	X limited to the	shall he	or tort	-	×	han		1	C		Floor #10		
	××	××	< ×		2/19/19	×	+	+	+	×			-	0		Floor #9	2	1
	×	×	×		2/19/19	×	+	-		×			-	0		Floor #8	0	
	×	×	×		2/19/19	×		-	-	×			-	C		Floor #7		
	×	×	×		2/19/19	×	-	-	-	×			-	0		Floor #6	-	
	×	×	×		2/19/19	×		-	-	×			-	C		Floor #5	-	
	×	×	×		2/19/19	×	-	+	-	×			-	0		Floor #4	₽ ₽	
	×	×	×		2/19/19	×	1	-	-	×			-	0		Floor #3		
	x	×	×		2/19/19	×	1	-		×			-	0		Floor #2		
	×	×	×		2/19/19	×		+	-	×			-	0		Floor #1	-	
	BTEX 8021	TPH 8015	Chloride	TIME	DATE	ICE / COOL OTHER :	ACID/BASE:	OTHER :	OIL	SOIL	WASTEWATER	GROUNDWATER	# CONTAINERS	(G)RAB OR (C)OMP		Sample I.D.	Lab I.D.	
				NG	SAMPLING	PRESERV.	PR		XIX	MATRIX	3			2.			FOR LAB USE ONLY	5
							Fax #:	Fa								Joel Lowry	Sampler Name:	Sar
						#	Phone	P								Lea Co, NM	Project Location:	Pro
					Zip:		State:	St								Energen State B	Project Name:	Pro
		2					ł.	City:						a	Project Owner:	P	Project #:	Pro
						ŝ	Address:	Ad				1			Fax #:		Phone #: 432-466-4450	Pho
			_		aytor	Attn: Steve Taylor	5	At					#	Zip	State: NM		y: Lovington	City:
				Ces-	-Caprock Services-		Company:	ç									Address: PO 896	Ado
			2	(Every	Dianous beck / Energe		0. #:	P.O.								Joel Lowry	Project Manager:	Pro
ANALYSIS REQUEST			T		LL TO	BILL									≫, LLC	Caprock Services, LLC	Company Name:	Cor
]					1						476	(575) 393-2	(575) 393-2326 FAX (575) 393-2476	10	
														340	NIM 85	- Total Bandand Link		

Page 168 of 212

Page 34 of 37

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-2476 Company Name: Caprock Services, LLC	476	BILL TO			ANALYSIS REQUEST
: Joel Lo	P.C	P.O. # Dianou rel Bade/Evergen	/Everyen	_	
Address: PO 896	Co	Company: Caprock Services	Ces		
City: Lovington State: NM	Zip # Att	Attn: Steve Taylor			
e #	Ad	Address:			
		City:			
ame: Energen State B		State: Zip:			
on:	hd	Phone #:			
	Fa	Fax #:			
	MATRIX	PRESERV. SAMPLING	NG		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	Chloride	TPH 8015 BTEX 8021	
Floor #11	1	x 2/19/19	x	x x	
12 Floor #12	C 1 x	x 2/19/19	×	××	
13 Floor #13	C 1 x	x 2/19/19	×	××	
	C 1 x	x 2/19/19	×	××	
S Floor #15	C 1 x	x 2/19/19	×	××	
-	C 1 x	x 2/19/19	×	x x	
Floor #17	C 1 x	x 2/19/19	x	××	
18 Floor #18	C 1 x	x 2/19/19	×	××	
	C 1 X	x 2/19/19	×	××	
C Floor #20	C 1 x	x 2/19/19	×	×××	
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 the client for the 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 30 days after completion of the applicable 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 30 days after completion of the applicable 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 30 days after completion of the applicable and applicable and applicable applicable and applicable applicable and applicable ap	y claim arising whether based in contract or tort, s eemed waived unless made in writing and received	shall be limited to the amount paid by the d by Cardinal within 30 days after complete the at least of model insurred by diant in	e client for the letion of the applicable		
out of or related to the performance of services hereunder by	Cardinal, regardless of whether such claim is based	uch claim is based upon any of the above stated reasons	ons or otherwise.	1	Add'I Dhone #.
shed	Received by:		Fax Result:	Ves IN0	Add'l Fax #:
in	Aller sur	WAR-	REMARKS: joel(: ioel@lowrvenvironmental.com	ental.com
Rélinquished By: V Date:	Received By:				
Time:					
Delivered By: (Circle One) Sampler - UPS - Bus - Other: $4.46/4$	#97 Cool Intact Pres Pres	n CHECKED BY:			

Page 169 of 212

101 East Marland, Hobbs, NM 88240 Ω C U oratories

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	010 000 -0-0 (0.0)		L	l	I	I	I	I	I	1	l	I								~			כחכ		1	
Company Name:	Caprock Services, LLC														BILLIO		4			-12					-	
Project Manager:	Joel Lowry									Р.	0	P.O. #: Dian	16	ş	moved back / Everses	Enorgen			_							
Address: PO 896	96									S	ă	Company:	Y		Caprock Services	Sa			_							
City: Lovington	on State: NM	NM Zip	#							A	E	do	100	9	Attn: Steve Taylor											
Phone #: 432-	432-466-4450 Fax #:									Þ	đ	Address:														
	Project Owner:	Owner:								0	City:															
Project Name:	Energen State B									ŝ	State:				Zip:											
Project ocation:										Τ	Por	Phone #:	71													
r luject Loomo										7	Fax #:	. #														
			-	-		~	MATRIX	S		ł	Ρ	PRESERV	SE	RV.	SAMPLING	G								_		
FOR LAB USE ONLY		OMP.		-																						
Lab I.D.	Sample I.D.	G)RAB OR (C)O	CONTAINERS	GROUNDWATER		WASTEWATER	SOIL	DIL	SLUDGE	OTHER :	ACID/BASE:		CE/COOL	OTHER :	DATE	Chloride	omonae	TPH 8015	BTEX 8021		_					
_	Floor Stain @ 10	G		-			×			-	-	_	×		2/19/19	×		×	×							
	Floor Stain @ 4'	G		-	-		×			-	-	-	×		2/19/19	×		×	×	-						
-	NSW 1	0	-	-			×		-	-	-	-	×		2/19/19	×		×	×	-						
Ę	NSW 2	c		-			×		-	+-	+		×		2/19/19	×		×	×	_						
	ESW 1	c	-	-			×		-	+	-		×		2/19/19	×		×	×	_				T		
26	ESW 2	0	-	-			×		1	-	-	_	×		2/19/19	×			×							
14	SSW 1	0	-	-			×		+	+	-		×		2/19/19	×		×	×							
28	SSW 2	C	-	-			×	1	-	-	-	-	×	1	2/19/19	×		×	×							
	WSW 1	0		-			×	-	-	-	-		×	1	2/19/19	×		×	×							
S	WSW 2	c	0	-			×	-	-	-	-		×		2/19/19	A client for the		×	×				Γ			
PLEASE NOTE: Liability an analyses. All claims includin service In no event shall Ci	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 annount paid by the client ror me 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its and service.	medy for any clair r shall be deemed , including without	n aris waiw	ing w ed un ition,	hethe less r busin	r bas nade ess i	ed in in wr iterru	contr iting a	act o and ru s, los	r tort s of u	shal se, o	Card r loss	s of p	d to the within within wrofits	30 days after compl incurred by client, it	e client for the applicable s subsidiaries,										
affiliates or successors arising	ors arising out of or related to the performance of services here and By: Date://	eunder by Cardina	Received By:	eiv	ed	By	1								reductived By: Phone	Phone Result:	17	□ Yes		No	Add'l P	Add'l Phone #:	77			
Jul Ju		102	A	0	2	1	a	Le		5	2	2	2	201	[REMARKS:	el	ioel@lowrvenvironmental.com	enviro	nmen	tal.co	m				
Relinquished By:	v: O Date:	~	Received By:	eiv	ed	By																				
	Time:																									
Delivered By	Delivered By: (Circle One)	#Q,				Sampl	ol pl	n C	act	Sample Condition Cool Intact	5		<u>-</u>		CHECKED BY:											
	Salliblet - OF S - Das - Saloit						z	°		No			2	2	-		L									

Received by OCD: 9/24/2024 2:17:54 PM

FORM-006 R 2.0

† Cardinal cannot accept verbal Changes. Please fax written changes to 575-393-2476

Page 170 of 212

Page 171 of 212



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project #: Phone #: City: Project Manager: Company Name: Address: Project Name: Sampler Name: Project Location: Happoss Relinquished By service. In no event shall Cardinal be liable for incidental or affiliates or successors arising out of or related to the perform Sampler - UPS -Relinquished By: nalyses. All claims including those for LEASE NOTE: Liability and Da FOR LAB USE ONLY Lab I.D. Delivered By: (Circle One) E Lovington FORM-006 R 2.0 C PO 896 432-466-4450 tens WSW 3 GC (575) 393-2326 FAX (575) 393-2476 Bus - Other: 4,40 Lea Co, NM Energen State B Joel Lowry Joel Lowry Cardinals Sample I.D. Caprock Services, LLC and any other cause whatsoever shall be deemed Project Owner: Fax #: intal dan State: NM Time: Date: Lb# remedy for any , including without † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Zip G (G)RAB OR (C)OMP Received By: 200 n arising whether based in contract or tort, shall be limited to the amount paid by the client for the waived unless made in writing and received by Cardinal within 30 days after completion of the applicable limitation, business inter # **# CONTAINERS** vived By GROUNDWATER Cool Intact WASTEWATER Sample Condition MATRIX SOIL × OIL SLUDGE loss of use, or loss of profits incurred by client, its subsidiaries, State: City: P.O. #: Dianovelbudelliverge OTHER Fax #: Phone #: Address: Attn: Steve Taylor Company: PRESERV ACID/BASE: ICE / COOL × CHECKED BY: of the above stated reasons or otherwise BILL TO OTHER Caprock Services Zip: 2/19/19 DATE SAMPLING REMARKS: Fax Result: Phone Result: TIME joel@lowrvenvironmental.com Chloride × TPH 8015 Yes × **BTEX 8021** No ANALYSIS Add'l Fax #: Add'l Phone # REQUEST

Received by OCD: 9/24/2024 2:17:54 PM



March 06, 2019

TOMMY YORK DIAMONDBACK ENERGY HCR 4 BOX 546A SEMINOLE, TX 79360

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 03/04/19 12:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



		DIAMONDBACK ENERGY TOMMY YORK HCR 4 BOX 546A SEMINOLE TX, 79360 Fax To:		
Received:	03/04/2019		Sampling Date:	03/01/2019
Reported:	03/06/2019		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR 8 B (H900837-01)

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	<10.0	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	87.6	% 41-142							
Surrogate: 1-Chlorooctadecane	90.0	% 37.6-14	7						

Sample ID: FLOOR 7 B (H900837-02)

TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	265	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	42.2	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	94.8 %	6 41-142							
Surrogate: 1-Chlorooctadecane	111 %	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		DIAMONDBACK ENERGY TOMMY YORK HCR 4 BOX 546A SEMINOLE TX, 79360 Fax To:		
Received:	03/04/2019		Sampling Date:	03/01/2019
Reported:	03/06/2019		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR 10 B (H900837-03)

TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	184	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	22.9	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	92.4 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	104 %	6 37.6-14	7						

Sample ID: FLOOR 13 B (H900837-04)

TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	95.2	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	10.4	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	95.6 9	% 41-142							
Surrogate: 1-Chlorooctadecane	105 %	<i>37.6-14</i>	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		DIAMONDBACK ENERGY TOMMY YORK HCR 4 BOX 546A SEMINOLE TX, 79360 Fax To:		
Received:	03/04/2019		Sampling Date:	03/01/2019
Reported:	03/06/2019		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR 11 B (H900837-05)

TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	258	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	46.5	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	97.3 %	% 41-142	?						
Surrogate: 1-Chlorooctadecane	115 %	6 37.6-14	7						

Sample ID: FLOOR 2 B (H900837-06)

TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	<10.0	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	89.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.1	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		DIAMONDBACK ENERGY TOMMY YORK HCR 4 BOX 546A SEMINOLE TX, 79360 Fax To:		
Received:	03/04/2019		Sampling Date:	03/01/2019
Reported:	03/06/2019		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: FLOOR STAIN @ 11.5 ' B (H900837-07)

TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	<10.0	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	91.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.7	% 37.6-14	7						

Sample ID: FLOOR STAIN @ 5' B (H900837-08)

TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	29.6	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	89.1 9	% 41-142							
Surrogate: 1-Chlorooctadecane	91.3 9	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		DIAMONDBACK ENERGY TOMMY YORK HCR 4 BOX 546A SEMINOLE TX, 79360 Fax To:		
Received:	03/04/2019		Sampling Date:	03/01/2019
Reported:	03/06/2019		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM			

Sample ID: SSW 1 B (H900837-09)

TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	<10.0	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	<10.0	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	93.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.7	% 37.6-14	7						

Sample ID: WSW 3 G C B (H900837-10)

TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2019	ND	209	105	200	1.91	
DRO >C10-C28*	736	10.0	03/05/2019	ND	216	108	200	1.89	
EXT DRO >C28-C36	145	10.0	03/05/2019	ND					
Surrogate: 1-Chlorooctane	96.4 %	6 41-142							
Surrogate: 1-Chlorooctadecane	129 %	<i>37.6-14</i>	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

oratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101	101 East Marland, Hobbs, NM 88240	, NM 8824	60																									
Company Name: (5	Diamondback Energy	0) 22-241	0									BIL	LL TO						ANAL	LYSIS		REQUES	č	SI				
	Joel Lowry								P.O.	#	Ĩ.																	
Address: HCR 4 B	HCR 4 Box 546A, Seminole, Tx 79360	9360							S	mp	Company:																	
									2	3		and the second s)													-
Phone #:	Fax #:	#							H	R4	Boy	HCR 4 Box 546A	HCR 4 Box 546A		kico													
Project Owner:	Diamondback Energy								Se	nin	ole,	ŢX,	Seminole, TX, 79360		Me	I-B												
Project Name: State B	θB														New	00 C	021	1005									H	
n:	Lea Co, NM								Attn:	ä					Ext (e 45	EX 8	тх -									RUS	
	Iordyne Taylor											То	Tommy York		M. I	orid	BTE	PH									-	
ľ	ouragine ragion		_	4	1	š	MATRIX	^	t	PR	ESE	PRESERV.	SAMPLING	G)15	Chic		1										
FOR LAB USE ONLY			ΛP.			-									H 80	c												
Lab I.D.	Sample I.D.	5	G)RAB OR (C)OM	CONTAINERS	ROUNDWATER	OIL	NL	LUDGE	THER :	CID/BASE:	CE / COOL	THER :	DATE	TIME	TPI													and a second
Flo	Floor 8 B		0	-		×	1	-	-	1	×		3/1/19	00 PC	×						-			+			_	
and the second second	Floor 7 B		0	-		×	-				×		3/1/19	Solo	×						-							
S Flo	Floor 10 B		C	-		×	-				×		3/1/19	0110	×						-			+			_	
or the Party of th	Floor 13B		C	-	1	×	-				×		3/1/19	5160	×					-	+			+-			_	
5 Flo	Floor 11B		C	-			×				×		3/1/19	0420	×									+				
-	Floor 2B		C	-			×				×		3/1/19	SCHO	×									-				
7 FIO	Floor Stain @ 11.5'b		С	-			×				×		3/1/19	0930	×					-				+			-	
S FIO	Floor stain @ 5'b		С	-			×				×		3/1/19	25/09	×													
-	SSW1B		C	-			×		-	-	×	-	3/1/19	0440	×					-	-							
SM O	WSW3GCB		С	-		-	×	-			×		3/1/19	14460	×			Γ	Γ	F	\vdash	L	Г	\vdash				L
PLEASE NOTE: Liability and Dan analyses. All claims including tho service. In no event shall Cardina	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 pad by the client tort and an 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 3 after completion of the applical 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 3 after completion of the applical 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 3 after completion of the applical analyses. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of use above stated researce or otherwise.	lusive remedy for ar hatsoever shall be d damages, including	leemed without	arising waived limitati	y wheth y unles	ter bas s mad siness	e in wr interru	iting a ptions	nd rec	eived of use	by Ca	limited Indinal	whether based in contract or tort, shall be limited to the amount part by the client of or unless made in writing and received by Cardinal within 30 days after completion of the unless interruptions, loss of use, or loss of the first incurred by client, its subsidiarie of the second se	by the client for the completion of the ent, its subsidiarie	ne 9 applic 98,	able												
Refinquished By:	and to the performance of servess r Date: Time;	10:12 51	Rec	Received By:	ed E	·			0	Z	P	LOV	5	Phone Result: Fax Result: REMARKS:	ult:	□ Yes		No	Add'l Phone #: Add'l Fax #:	Phor	# 10 #:							
Relinquished BK	Date:	te:	Be	Received By:	ed E	٩Y:	4									,						-	-		5			
	Time:	ne:								-	2	i		Joel	3	@ Low ryenviromental. un	ž	Š	N	<u>S</u>	Ne	n	2	•	8	۶		
Delivered By: (Circle One)		540/#an	I		0 %	Cool	Cool Intact	e Condi	be litior		9		(Initials)															
Sampler - UPS - Bus - Ouler.			-						0		5	XL																L

Released to Imaging: 9/26/2024 1:59:45 PM

Sampler - UPS - Bus - Other: FORM-006 R 2.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



March 22, 2019

JOEL LOWRY LOWRY ENVIROMENTAL & ASSOCIATES PO BOX 296 LOVINGTON, NM 88260

RE: STATE B

Enclosed are the results of analyses for samples received by the laboratory on 03/20/19 13:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



		LOWRY ENVIROMENTAL & / JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260 Fax To:	ASSOCIATES	
Received:	03/20/2019		Sampling Date:	03/19/2019
Reported:	03/22/2019		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker

Project Location: DIAMONDBACK ENERGY - LEA CO NM

Sample ID: FLOOR # 2 N WALL (H901073-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	98.0	% 41-142							
Surrogate: 1-Chlorooctadecane	90.7	% 37.6-14	7						

Sample ID: FLOOR # 2 E WALL (H901073-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142							
Surrogate: 1-Chlorooctadecane	92.6	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		LOWRY ENVIROMENTAL & JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260 Fax To:	ASSOCIATES	
Received:	03/20/2019		Sampling Date:	03/19/2019
Reported:	03/22/2019		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	DIAMONDBACK ENE	RGY - LEA CO NM		

Sample ID: FLOOR # 2 S WALL (H901073-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	14.5	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	107	% 41-142							
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

Sample ID: FLOOR # 3 E WALL (H901073-04)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.2	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		LOWRY ENVIROMENTAL & , JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260 Fax To:	ASSOCIATES	
Received:	03/20/2019		Sampling Date:	03/19/2019
Reported:	03/22/2019		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	DIAMONDBACK ENER	RGY - LEA CO NM		

Sample ID: FLOOR # 6 S WALL (H901073-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	107	% 41-142							
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

Sample ID: FLOOR # 7 E WALL (H901073-06)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	99.6	% 41-142							
Surrogate: 1-Chlorooctadecane	93.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	JOEL PO BO	RY ENVIROMENTAL & / LOWRY DX 296 NGTON NM, 88260 o:	ASSOCIATES	
Received:	03/20/2019		Sampling Date:	03/19/2019
Reported:	03/22/2019		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	DIAMONDBACK ENERGY - I	LEA CO NM		

Sample ID: FLOOR # 11 S WALL (H901073-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	100	% 41-142							
Surrogate: 1-Chlorooctadecane	92.8	% 37.6-14	7						

Sample ID: FLOOR # 11 E WALL (H901073-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	11.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	91.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.3	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	LOWRY ENVIROMENTAL 3 JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260 Fax To:	& ASSOCIATES	
Received:	03/20/2019	Sampling Date:	03/19/2019
Reported:	03/22/2019	Sampling Type:	Soil
Project Name:	STATE B	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	DIAMONDBACK ENERGY - LEA CO NM		

Sample ID: FLOOR # 11 N WALL (H901073-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	1 mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	109	% 41-142							
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

Sample ID: FLOOR # 9 E WALL (H901073-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	<10.0	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	99.0	% 41-142							
Surrogate: 1-Chlorooctadecane	96.8	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		LOWRY ENVIROMENTAL & JOEL LOWRY PO BOX 296 LOVINGTON NM, 88260 Fax To:	ASSOCIATES	
Received:	03/20/2019		Sampling Date:	03/19/2019
Reported:	03/22/2019		Sampling Type:	Soil
Project Name:	STATE B		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker
Project Location:	DIAMONDBACK ENE	RGY - LEA CO NM		

Sample ID: FLOOR # 13 S WALL (H901073-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2019	ND	208	104	200	2.86	
DRO >C10-C28*	39.3	10.0	03/20/2019	ND	206	103	200	3.94	
EXT DRO >C28-C36	<10.0	10.0	03/20/2019	ND					
Surrogate: 1-Chlorooctane	89.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.2	% 37.6-14	7						

Sample ID: FLOOR # 13 E WALL (H901073-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	03/22/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2019	ND	218	109	200	1.21	
DRO >C10-C28*	54.9	10.0	03/21/2019	ND	193	96.3	200	9.83	
EXT DRO >C28-C36	<10.0	10.0	03/21/2019	ND					
Surrogate: 1-Chlorooctane	80.2	% 41-142							
Surrogate: 1-Chlorooctadecane	80.3	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

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 SM4500CI-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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 9/24/2024 2:17:54 PM

Received	l by OCD	: 9/24/	/2024 2	2:17:	54 P.	M																1	Page 18	8 of 212
Delivered By: (Sampler - UPS -	Relinquished By:	Relinguished By:	PLEASE NOTE: Liability and D analyses. All claims including th service. In no event shall Cardin alfiliates or successors arising o	10 4	200	75	5	4.4	3	2.2	4-1	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project #:	Phone #:	city: Seminole	Address: HCR	Project Manager:	10 (5) Company Name:			Page 9 of 10
(Circle One) - Bus - Other:			PLEASE NOTE: Liability and Damages, Cardina's liability and clants exclusive noney for any claim anticing whether bedged in contract analyses. All claims including those for negligence and any other cause whatsoever shall be doenned waived unless made in writing an contract seconds. In no event shall Cardinal be liable for incidential or conceruental clamages, including without limitation, business interruptions, afficiates or successors arising out of or related to the performance of services hereunder by Cardinal, pegardees of whether such claim afficiates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim	100r #9 E	100r # 11 E	Si#	HOR# JE W	3 E#	هنم مم	1 10 F	Ploor #12 C VS	Sample I.D.		Jordenne	Lea Co. 1	State B		ole	X	Joel Low	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		bora	J
2-70 7	Time:	2	and client's exclusive remedy for any claim artising other cause whatsoever shall be deemed waived consequental damages, including without limitating mance of services hereunder by Cardinal, regard	walk C	wall C	wall	walk C	wall c		211	wall - a	(G)RAB OR (C)OM	С Р.	Toulor	UM	Project Owner: WOMMADOC	Fax #:	State: X Zip:	A,	a mar alay	nd, Hobbs, NM 88240 FAX (575) 393-2476		atories	
Sample Condition Cool Infact Pres Pres No No	Received By:	Received By:	aim origing whether based in contract o red waived unless made in writing and i out limitation, business interruptions, lo al, regardless of whether such claim is		×X	=- X	XX		-	- X	- X	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	MATRIX			NOW AND DOCLENE		p: 74560	2	4			ហី	
Art (Initials)	Marrie .	0	t or tort, shall b d received by (loss of use, or is based upon	XX	× 3-1	-91-5 X	× 3-19-	X 3-1	× 3-1	8	X	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV. S	Fax #:	· #:	State: Zip:	Address:	Attn: TOMMU	Company: S	P.O. #:				
	<u></u>	Fax Result: REMARKS:	 Imited to the amount paid by the client for the Cardinal within 30 days after completion of the ap loss of profits incurred by client, its subsidiaries, any of the above stated reasons or otherwise. 	1650	NO	19 1435	10 16 gr	1630	IL IS	19/11/10	lloss	DATE	SAMPLING					York	AME.			CHAIN-C		
	I Course	1: D Yes D No	the le applicable ries, e.	x y x y	K P K K		x x		<u>۶</u> ۲													DF-CUSTOD		
	pl@ Lownyenvinnmental.com	Add'l Phone #: Add'l Fax #:																			ANAI VSIS BI	Y AND ANAL		
м	hal. com											C ^a									DEOLIEST	-OF-CUSTODY AND ANALYSIS REQUEST		n g a
																						EST		÷

.

Received by OCD: 9/24/2024 2:17:54 PM

analyses. All claims including those for negligence and any other cause whatbeover shall be deemed walved unless made in withing and reacted by Caulinal within 30 days after completion of the applicable services. In the own shall Cardinal be liable for incidential or concequential damages, including without limitation, business intempedian, lass of use, or loss of parts incurred by clear. It is ausuiclates, and the partmance of services hereundor by Cardinal, regardless of whether such claim is based upon any of the above stated measure of the open any of the above stated measure of the	Company Name: Diamond back Energy Project Manager: The Lowry Polet Manager: The Lowry Polet Manager: The Lowry Polet Manager: The Project Name: The Project Owner I and the Second Secon	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
	X ICE/COOL OTHER: 3/19-19 19-19 19-19 19-19 100 X TPH 8015 M. Ext. (NM)	

Page 189 of 212 Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ATTACHMENT #7 Photographic Log



Figure 1 View of surface staining from the initial release, facing East.



Figure 2 View of excavation activites, facing Southeast.



Figure 3 View of excavation activities, facing West.





Figure 5 View of portion of the excavated area, facing Northeast.



Figure 6 View of the affected area after remediation activities, facing South.

•

ATTACHMENT #8

Release Notification (FORM 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 April 3, 2017

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

Release Notification and Corrective Action

	OPERATOR	x Initial Report	Final Report
Name of Company Energen Resources Corporation	Contact Andy Cobb		
Address 3510 N A Street, Midland, TX 79705	Telephone No. 432-686-359	99	
Facility Name State B	Facility Type Oil and Gas Pro	duction Facility	

Surface Owner Dan Field/Branch Ranch Mineral Owner State of New Mexico API No. 3002502709

	LOCATION OF RELEASE														
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County							
J	1	16S	35E	4610	FSL	2301	FEL	LEA							

Latitude 32.9565239 Longitude -103.4101334 NAD83

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 136 barrels Volume Recovered 0
Source of Release Oil Tank	Date and Hour of Occurrence 5/22/18 Date and Hour of Discovery 6/1/18
Was Immediate Notice Given?	If YES, To Whom?
Yes X No Not Required	
By Whom?	Date and Hour
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
Yes X No	
If a Watercourse was Impacted, Describe Fully.*	
	RECEIVED
	By CHernandez at 2:31 pm, Jun 04, 2018
Describe Cause of Problem and Remedial Action Taken.*	
Corrosion caused a hole to develop in the oil tank and release fluid. The flu	id was not immediately discovered.
Describe Area Affected and Cleanup Action Taken.*	
The area inside the berm was affected and remediation will be as soon as p	aldisso
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file contain relevant	he best of my knowledge and understand that pursuant to NMOCD rules and
regulations an operators are required to report and/or file certain release n public health or the environment. The accentance of a C_{-141} report by the	otifications and perform corrective actions for releases which may endanger NMOCD marked as "Final Report" does not relieve the operator of liability
should their operations have failed to adequately investigate and remediat	e contamination that pose a threat to ground water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report do	bes not relieve the operator of responsibility for compliance with any other
federal, state, or local laws and/or regulations.	
\cap	OIL CONSERVATION DIVISION
Signature: Vicley CDBB	
	\cap
Printed Name: Andy Cobb	Approved by Environmental Specialist:
	0/4/2040
Title: Director EH&S	Approval Date: 6/4/2018 Expiration Date:
	Conditions of Approval: Attached
Date: 6/4/2018 Phone: 432-686-3599	See attached directive
Date: 6/4/2018 Phone: 432-686-3599 Attach Additional Sheets If Necessary	
Attach Additional Sheets II Necessary	IRP-5082 nCH1815552862
	CH1815554047

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 Department**

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

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District Office

Incident ID	nCH1815552862
District RP	1RP-5082
Facility ID	30-025-02709
Application ID	pCH1815554047

Release Notification

Responsible Party

Responsibly Party	Energen Resources Corporation	OGRID	162928	
Contact Name	Tommy York	Contact Telephone	432-209-2483	
Contact Email	tommy.york@energen.com	Incident # (assigned by OCD)	1RP-5082	
Contact Mailing Address	3510 N A Street, Midland, TX 797	05		

Location of Release Source

Latitude		32.95652		Longitude	-103.41013	
			(Nad 83 in decimal a	legrees to 5 decimal pl	aces)	_
Site Name	State B			Site Type	Tank Battery	·
Date Release I	Discovered	06/01/18		API# (if applicable)	30-025-02709	
Unit Letter	Section	Township	Range	County		
"J"	1	16	35	Lea		
Surface Owner	r: 🛛 State	🗆 Federal 🗆	Tribal Private (Name		State of New Mexico)
			Nature and V	olume of Relea	ase	

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	136	Volume Recovered (bbls)	0
Produced	Water Volume Released (bbls)		Volume Recovered (bbls)	
	Is the concentration of total di produced water >10,000 mg/l		e 🗆 Yes 🖾 No	
Condensat	e Volume Released (bbls)		Volume Recovered (bbls)	
Natural Ga	s Volume Released (Mcf)		Volume Recovered (Mcf)	
Other (des	cribe) Volume/Weight Released (pro	ovide units)	Volume/Weight Recovered (provide unit	ts)
0 0D 1				

Cause of Release

A hole developed in the oil tank as a result of corrosion; the fluid was not immediatedly discovered.

Form C-141	State of New Mexico	Incident ID	nCH1815552862
Page 2 Oil Conservation Division	District RP	1RP-5082	
		Facility ID	30-025-02709
		Application ID	pCH1815554047

Was this a major release as defined by 19.15.29.7(A) NMAC? ☑ Yes □ No	If YES, for what reason(s) does the responsible party consider this a major release? Release of greater than 25 bbls.
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means? (phone, email, etc)?
No	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- The source of the release has been stopped.
- ☑ The impacted area has been secured to protect human health and the environment.
- Release materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11 (A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name:	Tommy York	Title:	Production Superintendent	
Signature:	commy York _	Date:	12-19-18	
email: <u>tommy.yc</u>	ork@energen.com	Telephone:	432-209-2483	
OCD Only				
Received by:	REVIEWED	Date:		
	By CHernandez at 10:12 an	n, Jan 16, 2019		

Form C-141	State of New Mexico	Incident ID	nCH1815552862
Page 3	Oil Conservation Division	District RP	1RP-5082
		Facility ID	30-025-02709

Application ID pCH1815554047

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discover date.

What is the shallowest depth to groundwater beneath the area affected by the release?	Ĺ	63 Ft.	(ft. bgs)
Did this release impact groundwater or surface water?		Yes 🗹	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?		Yes 🗹	No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinarily high-water mark)?		Yes 🗹	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?		Yes 🗹	No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?		Yes 🗹	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?		Yes 🖾	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?		Yes 🗹	No
Are the lateral extents of the release within 300 feet of a wetland?		Yes 🗹	No
Are the lateral extents of the release overlying a subsurface mine?		Yes 🗵	No
Are the lateral extents of the release overlying an unstable area such as karst geology?		Yes 🗹	No
Are the lateral extents of the release within a 100-year floodplain?		Yes 🗹	No
Did the release impact areas not on an exploration, development, production or storage site?		Yes 🗹	No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. Than plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modifies by site- and release-specific parameters.

Form C-141	State of New Mexico	Incident ID	nCH1815552862
Page 4	Oil Conservation Division	District RP	1RP-5082
		Facility ID	30-025-02709
		Application ID	pCH1815554047

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name:	Tommy York	Title:	Production Superintendent	
Signature:	Tommy Yorb	Date:	12-19-18	
email:	tommy.york@energen.com	Telephone:	432-209-2483	
OCD Only Received by:	APPROVED By CHernandez at 10:12 am,	Jan 16, 2019		

Form C-141	State of New Mexico	Incident ID	nCH1815552862
Page 5	Oil Conservation Division	District RP	1RP-5082
		Facility ID	30-025-02709
		Application ID	pCH1815554047

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the report.

Detailed description of proposed remediation technique

- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- □ Extents of contamination must be fully delineated.
- □ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of compliance with any other federal, state, or local laws and/or regulations.

Printed Name:	Tommy York	Title:	Production	Superintendent
Signature:	Jommey York	Date:	12-19-18	
email:	tommy.york@energen.com	Telephone:	432-20	9-2483
OCD Only				
Received by:		Date:		
□ Approved	Approved with Attached Conditions of APPROVED	Approval	□ Denied	Deferral Approved
Signature:	By CHernandez at 10:12 am, Jan	16, 2019		

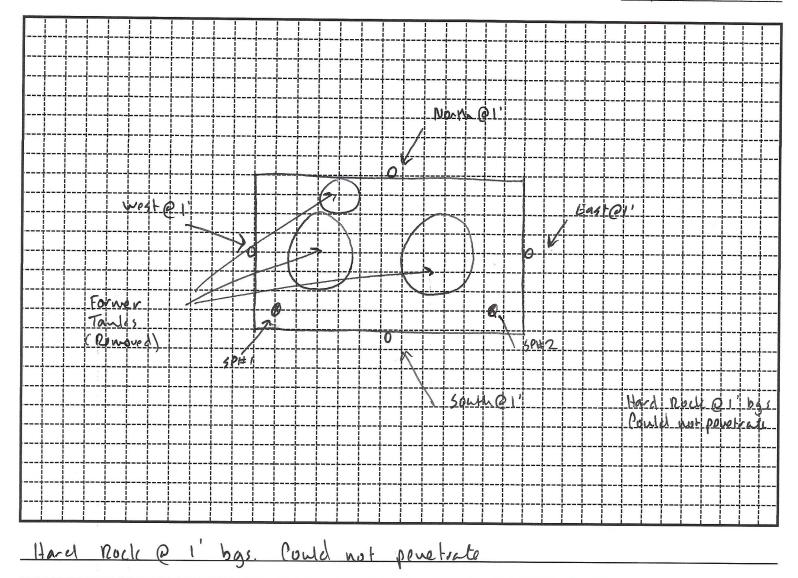
ATTACHMENT #9 Field Data

FIELD NOTES

Site Name: State B

Date: 11 2 2018

. *



Field ID	Odor/PID	Chloride
Northel'	None	330
Eastp1'	Slight	6120
South OI'	None	2,652
WOSTO 1'	None	942
C		

Field ID	Odor/PID	Chloride
		_
		8
	Sec. Sec.	

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride
		and the second

Field ID	Odor/PID	Chloride
		and the second

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 383227

QUESTIONS		
Operator:	OGRID:	
Sabinal Energy Operating, LLC 1780 HUGHES LANDING BLVD	328992	
	Action Number:	
THE WOODLANDS, TX 77380	383227	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nCH1815552862
Incident Name	NCH1815552862 ENERGEN STATE B @ 30-025-02709
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-02709] STATE B #004

Location of Release Source

Please answer all the questions in this group.		
Site Name	ENERGEN STATE B	
Date Release Discovered	06/01/2018	
Surface Owner	State	

Incident Details

Please answer all the questions in this group.		
Incident Type	Oil Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. Cause: Corrosion | Tank (Any) | Crude Oil | Released: 136 BBL | Recovered: 0 BBL | Lost: 136 Crude Oil Released (bbls) Details BBL Cause: Corrosion | Tank (Any) | Produced Water | Released: 0 BBL | Recovered: 0 BBL | Lost: Produced Water Released (bbls) Details 0 BBL Is the concentration of chloride in the produced water >10,000 mg/l No Cause: Corrosion | Tank (Any) | Condensate | Released: 0 BBL | Recovered: 0 BBL | Lost: 0 Condensate Released (bbls) Details BBL Cause: Corrosion | Tank (Any) | Natural Gas Vented | Released: 0 Mcf | Recovered: 0 Mcf | Natural Gas Vented (Mcf) Details Lost: 0 Mcf Cause: Corrosion | Tank (Any) | Natural Gas Flared | Released: 0 Mcf | Recovered: 0 Mcf | Natural Gas Flared (Mcf) Details Lost: 0 Mcf Cause: Corrosion | Tank (Any) | Unknown | Released: 0 BBL | Recovered: 0 BBL | Lost: 0 Other Released Details BBL Are there additional details for the questions above (i.e. any answer containing N/A Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 2

Page 206 of 212

Action 383227

QUESTIONS (continued)

Operator:	OGRID:
Sabinal Energy Operating, LLC	328992
1780 HUGHES LANDING BLVD	Action Number:
THE WOODLANDS, TX 77380	383227
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remed	N/A lation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of
	ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of
Subsection A of 19.15.29.11 NMAC), please prepare and attach an information needed for closure e	
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Kyle Sanders Title: Manager EH&S Email: kyles@sabinalenergy.com Date: 09/24/2024

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Page 207 of 212

QUESTIONS, Page 3

Action 383227

QUESTIONS (continued)

Operator:	OGRID:
Sabinal Energy Operating, LLC	328992
1780 HUGHES LANDING BLVD	Action Number:
THE WOODLANDS, TX 77380	383227
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. Have the lateral and vertical extents of contamination been fully delineated Yes Was this release entirely contained within a lined containment area No Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) Chloride (EPA 300.0 or SM4500 CI B) 3080 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 35820 GRO+DRO (EPA SW-846 Method 8015M) 32030 BTEX (EPA SW-846 Method 8021B or 8260B) 307 (EPA SW-846 Method 8021B or 8260B) Benzene 2.8 Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. On what estimated date will the remediation commence 02/04/2019 On what date will (or did) the final sampling or liner inspection occur 03/19/2019 On what date will (or was) the remediation complete(d) 03/26/2019 What is the estimated surface area (in square feet) that will be reclaimed 7800 What is the estimated volume (in cubic yards) that will be reclaimed 1155 What is the estimated surface area (in square feet) that will be remediated 7800 What is the estimated volume (in cubic yards) that will be remediated 4540 These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 383227

QUESTIONS (continued)

Operator:	OGRID:
Sabinal Energy Operating, LLC	328992
1780 HUGHES LANDING BLVD	Action Number:
THE WOODLANDS, TX 77380	383227
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply.) (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) Yes Which OCD approved facility will be used for off-site disposal GANDY MARLEY LANDFARM/LANDFILL [fEEM0112338393] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Not answered. (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) Not answered (In Situ) Soil Vapor Extraction Not answered. (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) Not answered. (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) Not answered. (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) Not answered. Ground Water Abatement pursuant to 19.15.30 NMAC Not answered. OTHER (Non-listed remedial process) Not answered. Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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 Name: Kyle Sanders Title: Manager EH&S I hereby agree and sign off to the above statement Email: kyles@sabinalenergy.com Date: 09/24/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 5

Action 383227

QUESTIONS (continued)	
Operator: Sabinal Energy Operating, LLC 1780 HUGHES LANDING BLVD THE WOODLANDS, TX 77380	OGRID: 328992
	Action Number: 383227
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Page 210 of 212

QUESTIONS, Page 6

Action 383227

QUESTIONS (continued) Operator: OGRID: Sabinal Energy Operating, LLC 328992 1780 HUGHES LANDING BLVD Action Number: THE WOODLANDS, TX 77380 383227 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	386377
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/27/2024
What was the (estimated) number of samples that were to be gathered	53
What was the sampling surface area in square feet	7800

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	7800
What was the total volume (cubic yards) remediated	4540
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	7800
What was the total volume (in cubic yards) reclaimed	1155
Summarize any additional remediation activities not included by answers (above)	Remediation activities were conducted in accordance with an approved workplan Between 2/13/ and 3/12/2019. The submitted Closure Report was emailed to B. Billings but not uploaded into the NMOCD Imaging system utilized at the time.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ises which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.
	Name: Kyle Sanders

I hereby agree and sign off to the above statement	Name: Kyle Sanders
	Title: Manager EH&S
	Email: kyles@sabinalenergy.com
	Date: 09/24/2024

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

Page 211 of 212

QUESTIONS, Page 7

Action 383227

QUESTIONS (continued)	
Operator:	OGRID:
Sabinal Energy Operating, LLC 1780 HUGHES LANDING BLVD	328992 Action Number:
THE WOODLANDS, TX 77380	383227
,,	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Reclamation Report	

Only answer the questions in this group if all reclamation steps have been completed. Requesting a reclamation approval with this submission No

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 383227

CONDITIONS Operator: OGRID: Sabinal Energy Operating, LLC 328992 1780 HUGHES LANDING BLVD Action Number: THE WOODLANDS, TX 77380 383227 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NCH1815552862 ENERGEN STATE B, thank you. This Remediation Closure Report is approved.	9/26/2024