



Remediation and Closure Plan Report

Centennial Airstream Central Battery
Lea County, New Mexico
Incident ID: NRM2006358923

Prepared By:

3 Bear Delaware Operating-NM, LLC
1512 Larimer St. Suite 540
Denver, CO 80202

NMOCD District 1

811 S. 1st Street
Artesia, NM 88210

Subject: Remediation Work Plan and Closure
Centennial Airstream Central Battery
Lea County, New Mexico
Incident ID: NRM2006358923

3 Bear Delaware Operating-NM, LLC (3Bear) contracted Vertex, Inc. to perform soil assessment and remediation services at the above referenced location. The results of the soil assessment both from Vertex and 3 Bear and remediation activities are contained herein.

Site Information

The Centennial Airstream Central Battery site is located approximately six (6) miles southwest of Eunice, New Mexico. The legal location for this release is Unit Letter P, SE ¼ Section 13, Township 22 South and Range 24 East in Lea County, New Mexico. More specifically the latitude and longitude for the oil release are 32.386096 North and -103.417801 West.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Simona fine sandy loam. Per the Geologic Atlas of Texas, Hobbs sheet USGS) New Mexico Bureau of Geology and Mineral Resources, the local geology is Colluvial deposits.

There is no surface water located at the Airstream site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River located approximately 35 miles west of the Airstream site (United States Fish and Wildlife Service, 2020). A small At the Airstream site, there are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The New Mexico Office of the State Engineer Database indicates the nearest reported depth to groundwater is 42-feet below ground surface (BGS), as referenced in POD (Point of Diversion) record CP01682 POD1. POD record C-01682 contains well data indicating the depth to groundwater in 2019 was 42' bgs. This well is within one mile of the subject site. See Appendix A for the referenced groundwater information.

Pursuant to Table I, New Mexico Oil Conservation Division (NMOCD) Rule 19.15.29 of the New Mexico Administrative Code (NMAC), if a release occurs within the following areas, the responsible party must treat the release as if it occurred less than 50 feet to the groundwater.

Approximate Depth to Groundwater		42 Feet/BGS
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 200 feet of any lakebed, sinkhole or playa lake	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet from an occupied permanent residence, school, hospital, institution or church	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 1000 feet of any fresh water well or spring	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within incorporated municipal boundaries or within a defined Municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-2703 NMSA 1978	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within 300 feet of a wetland	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within the area overlying a subsurface mine	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within an unstable area	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Within a 100-year floodplain	

Based upon the analytical data collected for this subsurface investigation, the impacts from this release are below NMOCD remediation closure criteria. The criteria list in Table 1, 19.15.29 NMAC closure criteria. The reclamation closure criteria is as follows:

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method	Limit
<50"	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Incident Description

As described in the initial C-141, attached in Appendix B: on or about February 17, 2020, due to a valve being left open approximately 70 bbls of oil were released onto the Centennial pad. 3 Bear Energy took proactive environmental protective measures by dispatching a Hydro-vac to recover all free-standing fluid, and by excavating all saturated soil immediately upon discovery. Approximately 60 bbls of oil were recovered with a Hydro-vac.

Site Assessment

Vertex mobilized personnel to begin the site assessment and soil sampling activities. Composite soil samples were collected within and around the impacted area utilizing a hand auger. Results from the initial characterization are presented in the following data table and the extent of the spill is on Figure 2 in Appendix C along with the field data report. Dirt work completed by others, Wild West Excavators, to remove saturated soils and extent of contaminated soil based on field analysis and laboratory samples collected by Vertex. The final excavation was excavated to approximately 10' bgs in areas.

Field Characterization

Sample ID	Depth (ft.)	VOC (PID)	Petroflag TPH ppm	Cl mg/kg
BS20-01	0	630	8,100	130
	2'	180	4,120	
	4'	20	60	
BS20-02	0'	1,900	1,900	90
	2'	530	680	
	4'	40	73	
BS20-03	0'	480	6,000	70
	2'	130		
	4'	30	190	
	5'		82	
BS20-04	0'	390	4,300	110
	2'	218	1,390	
	4'	46	61	
BS20-05	0'	780	6,900	100
	2'	500	5,100	
	4'	140	2,300	
	6'	20	30	
BS20-06	0	390	5,100	64
	2'	350	2,600	
	4'	200	300	
	6'	19	46	
BS20-07	2'	4,000	6,900	70
	4'	4,300	3,330	
	6'	1,080	870	

	8'	49	69	
BS20-08	2'	4,300	9,900	
	4'	4,200	6,020	80
	6'	660	2,800	
	8'	55	88	
BS20-09	4'	7,900	8,100	
	6'	5,100	7,300	
	8'	1,260	645	
	10'	73	91	
BS20-10	4'	3,480	4,930	
	6'	440	1,080	
	8'	100	1,330	
	10'	12	33	
BS20-11	0	5,400	8,550	110
	2'	22	43	
BS20-12	0	930	1,040	89
	2'	41	77	
BS20-13	0	940	2,480	105
	2'	18	70	
BS20-14	0	160	1,110	70
	2'	90	480	
	4'	18	33	
WS20-01	Comp	10	46	55
WS20-02	Comp	8	79	51
WS20-03	Comp	19	88	77
WS20-04	Comp	7	34	108

Another set of samples were taken by 3Bear per the approved NMOCD sampling plan, attached in Appendix D and a map of sample points are also in Appendix D. The samples were properly packaged, preserved, manifested and transported to Cardinal Laboratories for analyses of Chloride (EPA Method 300.0), BTEX (EPA Method 8021B), and TPH (EPA Method 8015M). The analytical results from this sampling event are recapped in the table below. The official lab reports are in Appendix E.

Lab Report

Sample Number	BTEX mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
H210119-01	ND	ND	ND	ND	ND	ND	ND
H210119-02	ND	ND	ND	ND	ND	ND	ND
H210119-03	ND	ND	ND	ND	ND	ND	ND
H210119-04	ND	ND	ND	ND	56.6	56.6	32.0
H210119-05	ND	ND	ND	ND	ND	ND	ND
H210119-06	ND	ND	ND	ND	ND	ND	32.0
H210119-07	ND	ND	ND	ND	ND	ND	48.0
H210119-08	ND	ND	ND	ND	ND	ND	32.0
H210119-09	ND	1.04	ND	ND	ND	ND	32.0
H210119-10	ND	ND	ND	ND	ND	ND	16.0
H210119-11	ND	ND	ND	ND	ND	ND	ND
H210119-12	ND	ND	ND	ND	ND	ND	ND
H210119-13	ND	ND	ND	ND	ND	ND	48.0
H210119-14	ND	ND	ND	ND	ND	ND	16.0
H210119-15	ND	ND	ND	ND	ND	ND	ND
H210119-16	ND	ND	ND	ND	ND	ND	32.0
H210119-17	ND	ND	ND	ND	ND	ND	32.0
H210119-18	ND	ND	ND	ND	ND	ND	32.0
H210119-19	ND	ND	ND	ND	ND	ND	32.0
H210119-20	ND	ND	ND	16.2	ND	16.2	32.0
H210119-21	ND	ND	ND	21.0	ND	21.0	48.0
H210119-22	ND	ND	ND	ND	ND	ND	16.0
H210119-23	ND	ND	ND	ND	ND	ND	32.0
H210119-24	ND	ND	ND	23.9	ND	23.9	16.0
H210119-25	ND	ND	ND	ND	ND	ND	32.0
H210119-26	ND	ND	ND	ND	ND	ND	16.0
H210119-27	ND	ND	ND	ND	ND	ND	ND
H210119-28	ND	ND	ND	ND	ND	ND	ND
H210119-29	ND	ND	ND	ND	ND	ND	48.0
H210119-30	ND	ND	ND	ND	ND	ND	48.0
H210119-31	ND	ND	ND	ND	ND	ND	32.0
H210119-32	ND	ND	ND	ND	ND	ND	32.0

Remedial Actions

The impacted area near the source was been excavated by 3 Bear Energy to a depth of 8' to 10' bgs. The bottom as well as the sidewalls were advanced and excavated until NMOCD criteria were met. The impacted soil was disposed of at Lazy Ace Landfarm, an NMOCD approved facility.

Soil samples were collected per the sampling plan approved by the OCD on June 2, 2020. The approved sampling plan, site excavation maps complete with sample positions are attached in Appendix D and E. All soil samples were properly retrieved, preserved, manifested and transported to Cardinal Laboratories for analysis of Chloride (EPA method 300.0). The results are reference in the tables below for ease of reference, the complete laboratory reports are attached in Appendix E.

Closure

Pursuant to the approved work plan: the excavation was advanced to depths to meet the following cleanup criteria TPH levels <100 mg/kg, Benzene levels < 10 mg/kg, BTEX levels < 50 mg/kg and chloride levels were <600 mg/kg. The excavated areas were backfilled with clean caliche from Merchant. The remediated area is on a current Centennial operating pad. All contaminated soil was transported to Lazy Ace Landfarm, an NMOCD approved facility for disposal.

Laboratory analyses of final confirmatory samples showed constituent of concern concentration levels below NM OCD closure criteria for areas where depth to groundwater is equal to or less than 50 bgs. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

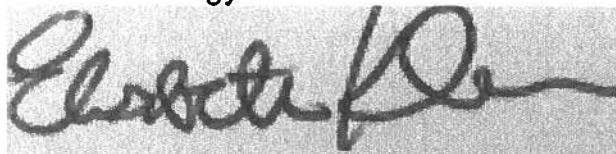
3Bear requests that this incident (NRM22006358923) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met.

3 Bear Energy respectfully submits this closure report, requesting that no further action be required and the regulatory file be closed.

Should you have any questions or if further information is required, please do not hesitate to contact me at 303-882-4404.

Respectfully submitted,

3 Bear Energy



Elisabeth Klein
Director, EHS Regulatory Compliance

Attachments:

Appendix A Groundwater Data
Appendix B Initial C-141 Form and Verbal
Notification
Appendix C Field Report and Map
Appendix D Approved Sampling
Plan
Appendix E Laboratory Data

Incident ID	NRM2006358923
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	42 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.

<input checked="" type="checkbox"/>	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
<input checked="" type="checkbox"/>	Field data
<input checked="" type="checkbox"/>	Data table of soil contaminant concentration data
<input checked="" type="checkbox"/>	Depth to water determination
<input checked="" type="checkbox"/>	Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
<input checked="" type="checkbox"/>	Boring or excavation logs
<input checked="" type="checkbox"/>	Photographs including date and GIS information
<input checked="" type="checkbox"/>	Topographic/Aerial maps
<input checked="" type="checkbox"/>	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. That 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 modified by site- and release-specific parameters.

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NRM2006358923
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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: Elisabeth Klein

Title: Director, EHS

Signature: 

Date: 5/28/2022

email: lklein@3bearllc.com

Telephone: 303-882-4404

OCD Only

Received by: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NRM2006358923
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Remediation Plan

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

- ☒ 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 responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Elisabeth Klein

Title: Director, EHS

Signature: 

Date: 5/28/2022

email: lklein@3bearllc.com

Telephone: 303-882-4404

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NRM2006358923
District RP	
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Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Elisabeth Klein

Title: Director, EHS

Signature: _____

Date: 5/28/2022

email: lklein@3bearllc.com

Telephone: 303-882-4404

OCD Only

Received by: Jocelyn Harimon

Date: 09/07/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jocelyn Harimon

Date: 09/07/2022

Printed Name: _____

Title: Environmental Specialist

APPENDIX A

GROUNDWATER DATA

Airstream 24 State Com 505H

DTGW: 42 ft

Nearest active well: OSE Well CP01682POD1

Distance to Well: 1.05 miles

Legend



Feature 1

Airstream 24 State Com 505H

OSE Well CP01682POD1

Google Earth

© 2020 Google

3000 ft





New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
2062A	CP 01682 POD1	1	2	2	23	22S	34E	647164	3583992
Driller License: 421		Driller Company:		GLENN'S WATER WELL SERVICE					
Driller Name: CORKY GLENN									
Drill Start Date:	09/10/2019	Drill Finish Date:		09/13/2019		Plug Date:			
Log File Date:	09/19/2019	PCW Rev Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield: 15 GPM			
Casing Size:	8.13	Depth Well:		294 feet		Depth Water: 42 feet			
Water Bearing Stratifications:		Top	Bottom	Description					
		42	56	Sandstone/Gravel/Conglomerate					
		68	92	Sandstone/Gravel/Conglomerate					
		242	274	Shale/Mudstone/Siltstone					
Casing Perforations:		Top	Bottom						
		0	294						

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

3/2/20 3:43 PM

POINT OF DIVERSION SUMMARY

APPENDIX B

INITIAL C-141 AND VERBAL NOTIFICATION

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	NRM2006358923
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: 3 Bear Delaware Operating – NM, LLC	OGRID: 372603
Contact Name: Elisabeth Klein	Contact Telephone: (303) 882-4404
Contact email: lklein@3bearllc.com	Incident # (assigned by OCD)
Contact mailing address 1512 Larimer St. Suite 540, Denver, CO 80202	

Location of Release Source

Latitude 32.386096 Longitude -103.417801
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Centennial Resource Production, LLC Site: Airstream	Site Type: Central Tank Battery
Date Release Discovered: 2/17/2020* Date 3Bear Notified	API# (if applicable):

Unit Letter	Section	Township	Range	County
P	13	22S	34E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: 3Bear)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) Approximately 70 bbls	Volume Recovered (bbls) 60 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Contractor working on 3Bear Energy LACT on Centennial's Airstream Central Tank Battery site did not close a valve.


State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? On February 17, 2020, 3Bear Energy was notified by Centennial that the spill occurred and that the spill occurred due to an open valve on our LACT at the Centennial site. Elisabeth Klein, 3Bear Energy, left a voicemail for Jim Griswold describing the spill on February 17 th and followed up with an email to Jim Griswold, Ramona Marcus and emnrd-ocd-district1spills@state.nm.us on February 17 th .	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> 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: <u>Elisabeth Klein</u> Title: <u>Director, EHS Regulatory Compliance</u>
Signature:  Date: <u>3/2/2020</u>
email: <u>lklein@3bearllc.com</u> Telephone: <u>(303) 882-4404</u>

State of New Mexico
Oil Conservation Division

Incident ID	NRM2006358923
District RP	
Facility ID	
Application ID	

OCD Only
Received by: Ramona Marcus Date: 3/3/2020

From: [Liz Klein](#)
To: [emnrd-ocd-district1spills@state.nm.us](#); [Jim.Griswold@state.nm.us](#)
Cc: [Ramona.Marcus@state.nm.us](#); [Mike Solomon](#); [Scott Spicher](#)
Subject: Oil Spill at Centennial's Airstream Central Tank Battery #2
Date: Monday, February 17, 2020 4:12:00 PM

An oil spill of approximately 60 bbls occurred at Centennial Resource Production Airstream Central Tank Battery #2 in Lea County over the weekend. Today 3Bear Energy was notified by Centennial that the spill occurred and that the spill occurred due to an open valve on our LACT at the site. This is written notification to follow-up on the voicemail left with Jim Griswold today. I will forward more detailed location information when I receive it and will submit the Initial Spill Notification (C-141) and remediation and closure plan.

Please call me if you have any questions.

Thank you.

Sincerely,

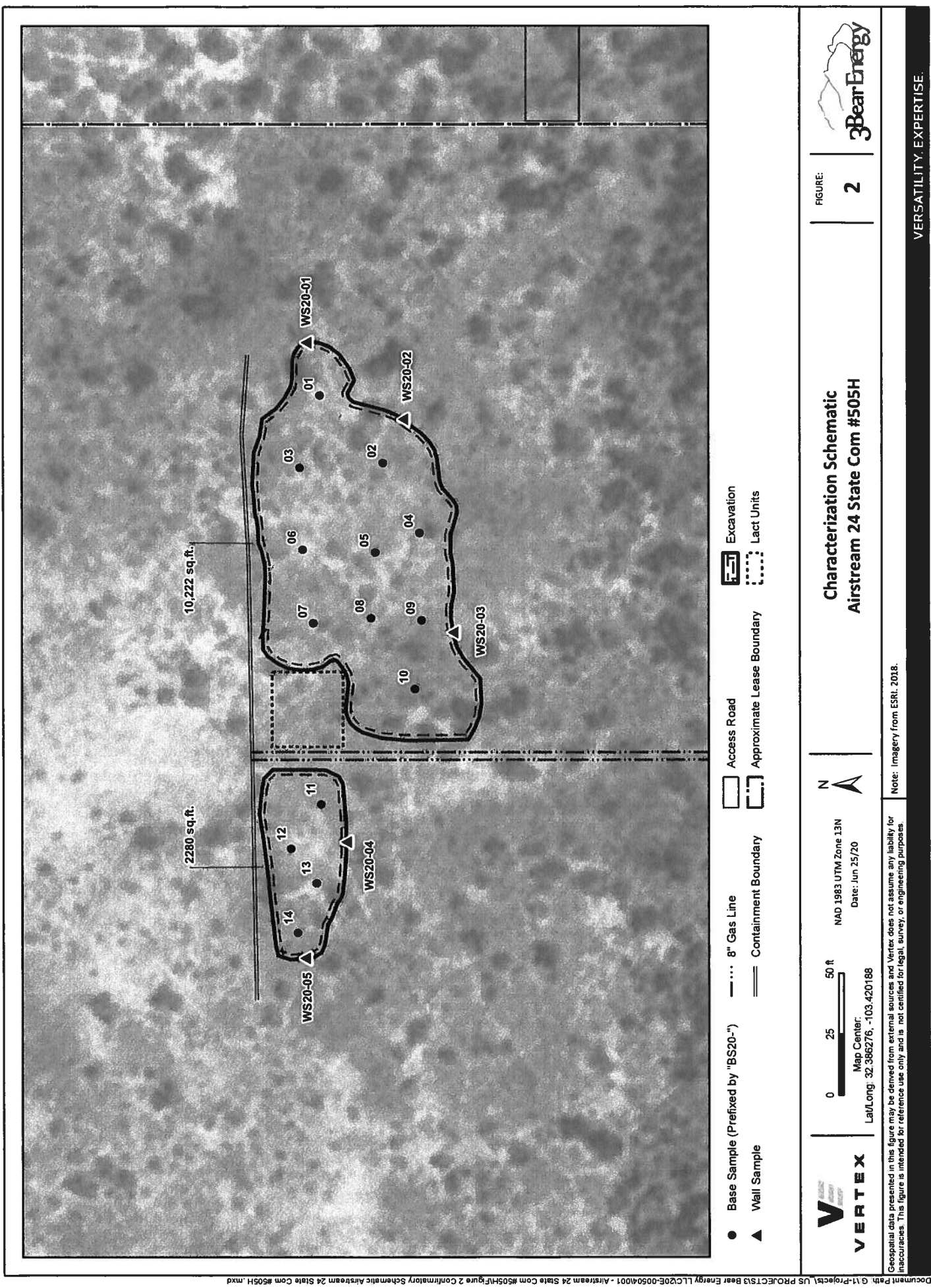
Liz Klein

Director, EHS Regulatory Compliance
3Bear Energy, LLC
303-862-3966 (O)
303-882-4404 (C)
lklein@3bearllc.com
1512 Larimer Street, Suite 540
Denver, CO 80202



APPENDIX C

FIELD REPORT AND MAP





Spill Response and Sampling

Client: 3 Bear
 Date: 4/8/2020
 Site Name: Airstream CTR
 Site Location: Lea County, NM
 Project Owner: _____
 Project Manager: Natalie Gordon
 Project #: _____

Initial Spill Information - Record on First Visit

Spill Date: 2/17/2020
 Spill Volume: 70 bbls crude
 Spill Cause: Leak Valve
 Spill Product: crude
 Recovered Spill Volume: 60 bbls
 Recovery Method: _____

Project #:		Sampling			Data Collection (Check for Yes)			
		Field Screening			Lab Analysis	Picture	Trimble Coordinates	Marked on Site Sketch
Sample ID	Depth (ft)	VOC (PID)	Petroflag TPH (ppm)	Quantab (High/Low) + or -				
SS/TP/BH - Year - Number Ex. BH18-01	Ex. 2ft	Ex. 400 ppm	200 ppm	Ex. High +	Ex. Hydrocarbon Chloride		✓	✓
BS20-01	0'	630	8,100	180				
	2'	180	4,120					
	4'	20	60					
BS20-02	0'	1900	1900	90				
	2'	530	680					
	4'	40	73					
BS20-03	0'	480	6,000	40				
	2'	830						
	4'	30	190					
	5'		82					
BS20-04	0'	390	4,300	110				
	2'	218	1,390					
	4'	46	61					
BS20-05	0'	780	6,400	100				
	2'	500	5,100					
	4'	140	2,300					
	6'	20	30					
BS20-06	0'	390	5,100	64				
	2'	350	2,600					
	4'	200	300					
	6'	19	46					

VERSATILITY. EXPERTISE.



Spill Response and Sampling

Client: 3 Bear

Date: 4-8-2020

Site Name: Airstream CTB

Site Location: Lea County, NM

Project Owner: _____

Project Manager: Natalie Gordon

Project #: _____

Initial Spill Information - Record on First Visit

Spill Date: 2-17-20

Spill Volume: 70 bbls oil

Spill Cause: Leak

Spill Product: oil

Recovered Spill Volume: 60 bbls

Recovery Method: _____

		Field Screening			Data Collection (Check for Yes)			
Sample ID	Depth (ft)	VOC (PID)	PetroFlag TPH (ppm)	Quantal (High/Low) ⁶⁰	Lab Analysis	Picture	Trimble Coordinates	Marked on Site Sketch
SS/TP/BH - Year - Number Ex. BH18-01	Ex. 2ft	Ex. 400 ppm	200 ppm	Ex. High +	Ex. Hydrocarbon Chloride			
BH20-07	2'	4,000	6,900	40				
	4'	4,300	3,330					
	6'	1,080	870					
*	8'	44	59					
BH20-08	2'	4,300	4,900					
	4'	4,200	6,020	80				
	6'	660	2,800					
	8'	55	88					
BH20-09	4'	7,900	8,100					
	6'	5,100	7,300					
	8'	1,080	645					
	10'	73	91					
BH20-10	4'	3,480	4,930					
	6'	440	1,080					
	8'	100	1,330					
	10'	12	33					
BH20-11	0'	5,400	8,550	110				
	2'	22	43					
BH20-12	0'	430	1,040	89				
	2'	41	77					
BH20-13	0'	940	2,480	105				
	2'	18	70					

VERSATILITY. EXPERTISE.

Spill Response and Sampling

Client: 3 Bear

Date: 4-8-2020

Site Name: Airstream CR

Site Location: Lea County, NM

Project Owner:

Project Manager: Natalie Gordon

Project #:

Initial Spill Information - Record on First Visit

Spill Date: 2-17-20

Spill Volume:

Spill Cause:

Spill Product: oil

Recovered Spill Volume:

Recovery Method:

[illegible]

VERSATILITY. EXPERTISE.

APPENDIX D

APPROVED SAMPLING PLAN

From: [Hamlet, Robert, EMNRD](#)
To: [Liz Klein](#)
Cc: [Bratcher, Mike, EMNRD](#); [Venegas, Victoria, EMNRD](#); [Eads, Cristina, EMNRD](#); [Mann, Ryan](#)
Subject: Sampling Plan Approval - 3 Bear - Airstream CTB Sample Plan - (Incident #NRM2006358923)
Date: Tuesday, June 2, 2020 2:36:42 PM
Attachments: [Sampling Plan Approval - 3 Bear - Airstream CTB Sample Plan.pdf](#)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Liz,

We have received your Sampling Plan Proposal for **Incident #NRM2006358923 Airstream CTB Sample Plan**, thank you.

- Brad Billings has informed us recently that the largest representative area for each composite sample will not exceed 500 ft²
- Your plan proposes 32 samples in a specified sampling area of 17802.95 ft²
- $17802.95 \text{ ft}^2 / 32 = 556.34 \text{ ft}^2$
- It looks like a lot of time and work went into the sampling plan. All of the coordinates, measurement analyses, and sampling approach have been outlined in the plan
- This composite sample size is relatively close to largest composite sample size that the OCD likes grants, so the sample plan is **approved**

Please let me know if you have any further questions.

Thank you,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 748-1283
Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

APPENDIX E

FINAL SAMPLING MAP AND LABORATORY DATA

Airstream CTB Location

Sampling map of the Airstream CTB excavation

Legend

- Testing Location





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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 3 (H210119-03)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73		
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54		
Total BTEX	<0.300	0.300	01/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.9 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/20/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918		
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 92.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.0 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 4 (H210119-04)

BTEX 8021B			mg/kg						
			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500Cl-B			mg/kg						
			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2021	ND	400	100	400	3.92	

TPH 8015M			mg/kg						
			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918	
DRO >C10-C28*	56.6	10.0	01/19/2021	ND	253	126	200	0.394	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.4 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 5 (H210119-05)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.1 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2021	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 91.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.7 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 6 (H210119-06)

BTX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54	
Total BTX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.2 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
 BO BUESCHER
 674 MARATHON ROAD
 HOBBS NM, 88240
 Fax To:

Received: 01/19/2021
 Reported: 01/20/2021
 Project Name: AIR STREAM
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: # 7 (H210119-07)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73		
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54		
Total BTEX	<0.300	0.300	01/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 98.6 % 73.3-129

Chloride, SM4500Cl-B			mg/kg								Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Chloride	48.0	16.0	01/20/2021	ND	400	100	400	3.92				

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918		
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 92.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.3 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 8 (H210119-08)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73		
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54		
Total BTEX	<0.300	0.300	01/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.6 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/20/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918		
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 93.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.5 % 42.2-156

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*=Accredited Analyte

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 9 (H210119-09)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73		
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18		
Ethylbenzene*	0.156	0.050	01/19/2021	ND	2.05	102	2.00	3.02		
Total Xylenes*	0.871	0.150	01/19/2021	ND	6.01	100	6.00	2.54		
Total BTX	1.04	0.300	01/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 99.1 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/20/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918		
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 97.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.1 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 10 (H210119-10)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73		
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54		
Total BTEX	<0.300	0.300	01/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.1 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/20/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918		
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 98.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.1 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 11 (H210119-11)

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	01/19/2021	ND	2.12	106	2.00	2.73	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.0 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2021	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.5 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 12 (H210119-12)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54	
Total BTX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.4 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.8 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 13 (H210119-13)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.2 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 14 (H210119-14)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73		
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54		
Total BTEX	<0.300	0.300	01/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/20/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918		
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 89.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.9 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 15 (H210119-15)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 97.8 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.8 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 16 (H210119-16)

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	01/19/2021	ND	2.12	106	2.00	2.73		
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54		
Total BTEX	<0.300	0.300	01/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.0 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/20/2021	ND	432	108	400	0.00		
TPH 8015M			mg/kg		Analyzed By: MS					

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	01/19/2021	ND	240	120	200	0.918		
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 90.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.7 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 17 (H210119-17)

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	01/19/2021	ND	2.12	106	2.00	2.73		
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54		
Total BTEX	<0.300	0.300	01/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.8 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/20/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	240	120	200	0.918		
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	253	126	200	0.394		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 88.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.2 % 42.2-156

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



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

Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 18 (H210119-18)

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	01/19/2021	ND	2.12	106	2.00	2.73	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02	
Total Xylenes*	0.239	0.150	01/19/2021	ND	6.01	100	6.00	2.54	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2021	ND	240	120	200	0.918	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	253	126	200	0.394	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.4 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 19 (H210119-19)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.5 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2021	ND	240	120	200	0.918	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	253	126	200	0.394	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.3 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 20 (H210119-20)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2021	ND	2.12	106	2.00	2.73	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.18	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.05	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.01	100	6.00	2.54	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 97.0 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2021	ND	240	120	200	0.918	
DRO >C10-C28*	16.2	10.0	01/20/2021	ND	253	126	200	0.394	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.1 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 21 (H210119-21)

BTEX 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	01/19/2021	ND	2.13	106	2.00	3.86			
Toluene*	<0.050	0.050	01/19/2021	ND	2.11	106	2.00	3.19			
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.88			
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.03	101	6.00	3.45			
Total BTEX	<0.300	0.300	01/19/2021	ND							

Surrogate: 4-Bromofluorobenzene (PIC) 99.4 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	48.0	16.0	01/20/2021	ND	432	108	400	0.00			

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58			
DRO >C10-C28*	21.0	10.0	01/19/2021	ND	245	122	200	7.06			
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND							

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 22 (H210119-22)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2021	ND	2.13	106	2.00	3.86	
Toluene*	<0.050	0.050	01/19/2021	ND	2.11	106	2.00	3.19	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.03	101	6.00	3.45	
Total BTX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	245	122	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 23 (H210119-23)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2021	ND	2.13	106	2.00	3.86	
Toluene*	<0.050	0.050	01/19/2021	ND	2.11	106	2.00	3.19	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.03	101	6.00	3.45	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 97.8 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	245	122	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 24 (H210119-24)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2021	ND	2.13	106	2.00	3.86		
Toluene*	<0.050	0.050	01/19/2021	ND	2.11	106	2.00	3.19		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.03	101	6.00	3.45		
Total BTX	<0.300	0.300	01/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIB) 98.8 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/20/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58		
DRO >C10-C28*	23.9	10.0	01/19/2021	ND	245	122	200	7.06		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 97.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.8 % 42.2-156

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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 25 (H210119-25)

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	01/19/2021	ND	2.13	106	2.00	3.86	
Toluene*	<0.050	0.050	01/19/2021	ND	2.11	106	2.00	3.19	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.03	101	6.00	3.45	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.3 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2021	ND	432	108	400	0.00	
TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	245	122	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 26 (H210119-26)

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	01/19/2021	ND	2.13	106	2.00	3.86		
Toluene*	<0.050	0.050	01/19/2021	ND	2.11	106	2.00	3.19		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.03	101	6.00	3.45		
Total BTEX	<0.300	0.300	01/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/20/2021	ND	432	108	400	0.00		

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58		
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	245	122	200	7.06		
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND						

Surrogate: 1-Chlorooctane 97.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.2 % 42.2-156

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



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

Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 27 (H210119-27)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/19/2021	ND	2.13	106	2.00	3.86	
Toluene*	<0.050	0.050	01/19/2021	ND	2.11	106	2.00	3.19	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.03	101	6.00	3.45	
Total BTX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	245	122	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received:	01/19/2021	Sampling Date:	01/19/2021
Reported:	01/20/2021	Sampling Type:	Soil
Project Name:	AIR STREAM	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: # 28 (H210119-28)

Sample ID: # 10 (H10110-10)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/19/2021	ND	2.13	106	2.00	3.86		
Toluene*	<0.050	0.050	01/19/2021	ND	2.11	106	2.00	3.19		
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	3.88		
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.03	101	6.00	3.45		
Total BTEX	<0.300	0.300	01/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/20/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	245	122	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 95.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.3 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 29 (H210119-29)

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	01/20/2021	ND	2.13	106	2.00	3.86	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.19	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.03	101	6.00	3.45	
Total BTEX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	245	122	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.4 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 30 (H210119-30)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2021	ND	2.13	106	2.00	3.86	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.19	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.03	101	6.00	3.45	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	245	122	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.7 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 31 (H210119-31)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2021	ND	2.13	106	2.00	3.86	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.19	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.03	101	6.00	3.45	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	245	122	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 90.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.7 % 42.2-156

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



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Analytical Results For:

3 BEAR ENERGY
BO BUESCHER
674 MARATHON ROAD
HOBBS NM, 88240
Fax To:

Received: 01/19/2021
Reported: 01/20/2021
Project Name: AIR STREAM
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/19/2021
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: # 32 (H210119-32)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2021	ND	2.13	106	2.00	3.86	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.19	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	3.88	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.03	101	6.00	3.45	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/20/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/19/2021	ND	237	119	200	9.58	
DRO >C10-C28*	<10.0	10.0	01/19/2021	ND	245	122	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	01/19/2021	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.0 % 42.2-156

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Notes and Definitions

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

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: 3 Bear Energy Project Manager: Bo Buesche Address: 674 Ravenna Rd City: Hobbs State: NM zip: 88241 Phone #: 20 - 243-7374 Fax #: Project #: Project Name: Air stream Project Location: Air stream Sampler Name: Joanne Athene FOR LAB USE ONLY				BILL TO P.O. #: Company: 3 Bear Energy Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST			
Lab I.D. HALD119		Sample I.D.		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER	MATRIX	PRESERV	SAMPLING				
1 #1 2 #2 3 #3 4 #4 5 #5 6 #6 7 #7 8 #8 9 #9 10 #10				DATE 1-19-21 TIME 9:30	CL BTEX TPH						
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Relinquished By: [Signature] Date: 1-19-21 Received By: [Signature] Date: 1-19-21				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:							
Relinquished By: [Signature] Date: 1-19-21 Received By: [Signature]				REMARKS:							
Delivered By: (Circle One) Delivered By: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other Observed Temp. °C 9.4 Corrected Temp. °C				Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> CHECKED BY: [Signature] Time: 10:45 Date: 1-19-21				Turnaround Time: Standard <input type="checkbox"/> Bacteria (only) <input checked="" type="checkbox"/> Thermometer ID #113 <input type="checkbox"/> Cool Intact <input checked="" type="checkbox"/> Correction Factor: None <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C			



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: 3 Bear Energy	P.O. #:	BILL TO	ANALYSIS REQUEST
Project Manager: Bo Buescher			
Address: 6th Marathon Rd	Company: 3 Bear Energy		
City: Hobbs	Attn:		
State: NM Zip: 88241			
Phone #: 210-243-1374	Fax #:		
Project #:	Project Owner:	City:	
Project Name: Air stream		State:	
Project Location: Air stream		Zip:	
Sampler Name: Jaime Athlone	Fax #:	Phone #:	

Project manager: Do Buescher										P.O. #:											
Address: 6TH Marathon Rd										Company: 3 Bear Energy											
City: Hobbs										Attn:											
Phone #: 210-243-1374										Address:											
Fax #:										City:											
Project #:										State:											
Project Name: Air stream										Zip:											
Project Location: Air stream										Phone #:											
Sampler Name: Juice Athlete										Fax #:											
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		MATRIX		PRESERV		SAMPLING											
				# CONTAINERS																	
				GROUNDWATER																	
				WASTEWATER																	
				SOIL																	
				OIL																	
				SLUDGE																	
				OTHER :																	
				ACID/BASE																	
				ICE / COOL																	
				OTHER :																	
H210119		# 11		DATE		TIME		CL													
11		12		1-19-21		8:50 am		✓													
12		13						✓													
13		14						✓													
14		15						✓													
15		16						✓													
16		17						✓													
17		18						✓													
18		19						✓													
19		20						✓													
20																					

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Relinquished By:

Date: 1-19-21 Received By:

Relinquished By:

Date: 1-19-21 Received By:

Time:

Delivered By: (Circle One)

Observed Temp. °C 9.4

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Sample Condition
☒ Cool ☐ Intact
☐ Yes ☒ No

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

☐

Bacteria (only) Sample Condition
☐ Cool ☐ Intact
☐ Yes ☐ No

Observed Temp. °C
Corrected Temp. °C

Verbal Results: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:

FORM 0001-01-10005/20

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: 3 Bear Energy		BILL TO		ANALYSIS REQUEST																
Project Manager: Bo Bucher		P.O. #:																		
Address: 674 Marathon Road		Company: 3 Bear E																		
City: Hobbs, New M		Attn:																		
State: NM		Address:																		
Zip: 88241		City:																		
Phone #: (505) 243-7374		State:																		
Fax #:		Zip:																		
Project #:		Phone #:																		
Project Name: Air stream		Fax #:																		
Project Location: Air stream																				
Sampler Name: Jaime Atileus																				
FOR LAB USE ONLY																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX	PRESERV	SAMPLING														
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	CL	BTEX	TPH					
H010119	31 # 21										1-14-21	8:50								
	32 # 22																			
	33 # 23																			
	34 # 24																			
	35 # 25																			
	36 # 26																			
	37 # 27																			
	38 # 28																			
	39 # 29																			
	30 # 30																			

PLEASE NOTE: Liability and Damages. Cardinal's liability and claims existence remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 1-19-21	Received By:	Time: 10:45	Remarks:

Delivered By: (Circle One)	Observed Temp. °C 9.4	Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact	(Initials)	Thermometer ID #113	Rush	Observed Temp. °C
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Y.P.		<input type="checkbox"/> Bacteria (only) <input checked="" type="checkbox"/> Cool Intact	
					<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com

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 138955

CONDITIONS

Operator: 3BEAR FIELD SERVICES, LLC 7102 Commerce Way Brentwood, TN 37027	OGRID: 372603
	Action Number: 138955
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	9/7/2022