

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	NDHR1911338772
District RP	1RP-5435
Facility ID	
Application ID	pDHR1911337600

Release Notification

Responsible Party

Responsible Party: Chevron USA Inc.	OGRID: 4323
Contact Name: Josepha DeLeon	Contact Telephone: 575-263-0424
Contact email: jdx@chevron.com	Incident # (assigned by OCD)
Contact mailing address: 1616 E. Bender Blvd., Hobbs, NM 88240	

Location of Release Source

Latitude: 32.6030922 Longitude: -103.6618652
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Smith 4 Federal #001	Site Type: Oil
Date Release Discovered: 03/14/2019	API# (if applicable): 30-025-36411

Unit Letter	Section	Township	Range	County
H	4	20S	33E	Lea

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

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): 8.16 barrels	Volume Recovered (bbls): 8 barrels
<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)

Incident ID	NDHR1911338772
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Cause of Release: Tank ran over to unlined berm.

Calculations: Assumed soil pore space: 5%

Area	size	Standing Liquid Oil (bbl)	In Soil, oil only, no water (bbl)	Oil Volume (bbl)	Water Volume (bbl)
1	16'x23' free liquid: ~1" depth	5.46		5.46	0
2	42'x2' free liquid: ~1/2" depth	0.62		0.62	0
3	32'x4' free liquid: ~3/8" depth	0.71		0.71	0
4	18'x6' free liquid: ~5/8" depth	1		1	0
5	33'x1.5' free liquid: ~1/2" depth	0.21	0.16	0.37	0
Total Fluid spilled				8.16	0
Total Fluid recovered (soil and oil per vac truck measurements)				8.00	0

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?

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

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.
- ☒ Released 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:

Incident ID	
District RP	1RP-5435
Facility ID	
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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?	33 (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.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-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. 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

State of New Mexico
Oil Conservation Division

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Incident ID	
District RP	1RP-5435
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Application ID	

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: Amy BarnhillTitle: Waste & Water SpecialisSignature: Date: 6-27-19email: ABarnhill@chevron.comTelephone: (432)687-7108**OCD Only**

Received by: _____

Date: _____

Form C-141

Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
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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: Amy BarnhillTitle: Waste & Water SpecialistSignature: Date: 6-27-19email: ABarnhill@chevron.comTelephone: (432) 687-7108**OCD Only**Received by: Victoria VenegasDate: 10/28/2019☒ Approved☐ Approve with Attached Conditions of Approval☐ Denied☐ Deferral ApprovedSignature: Date: 11/08/2019

Incident ID	
District RP	nDHR1911338772
Facility ID	
Application ID	

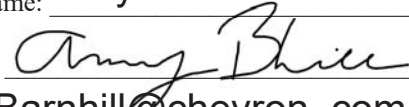
Closure

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: Amy Barnhill Title: Water Specialist
Signature:  Date: 7-8-2021
email: ABarnhill@chevron.com Telephone: (432)687-7108

OCD Only

Received by: _____ Date: _____

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: Nelson Velez Date: 06/22/2022
Printed Name: Nelson Velez Title: Environmental Specialist – Adv

Closure Report

NDHR1911338772

Site Description

Site Name:	Smith 4 Federal #001
Company:	Chevron
Legal Description:	U/L H, Section 4, T20S, R33E
County:	Lea County, NM
GPS Coordinates:	N 32.60309 W -103.66186

Release Data

Date of Release:	3/14/2019
Type of Release:	Produced water
Source of Release:	Tank ran over to unlined berm
Volume of Release:	8.16 bbls
Volume Recovered:	8 bbls

Remediation Specifications

Remediation Parameters:	Excavate the leak area SP1, SP2 & SP3 to a depth of 2 ft, and the leak area near SP4 to a dept of 4 ft. Zero remediation required near SP5 and SP6. Collect bottom confirmation samples and sidewall samples every 75 ft. Backfill the entire site with clean soil.
Remediation Activities:	3-5-21 to 3-29-21 & 6-14-21 to 6-21-21

Plan Sent to OCD:	6/28/2019	from Cliff to EMRD-OCD-District1spill; James Amos
OCD Approval of Plan:	11/8/2019	from Victoria to Cliff Brunson
Plan Sent to BLM:	11/8/2019	from James Amos to Cliff Brunson
BLM Approval of Plan:	10/25/2019	from Cliff to EMNRD-OCD-District1spills; James Amos

Supporting Documentation

Initial C-141	signed and included	
C-141, page 6	signed and included	
Site Diagram	Google Earth map with excavation depths & confirmation sample points	
Pictures	Remediation photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report for 2/20/20	
Depth to Groundwater	USGS Info	

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

6/29/2020

Released to Imaging: 6/22/2022 7:16:28 AM



1:9,028

-

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/>: New Mexico Oil Conservation Division



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 323541103395501

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 323541103395501 20S.33E.04.43211

Lea County, New Mexico
Latitude 32°35'41", Longitude 103°39'55" NAD27
Land-surface elevation 3,553 feet above NAVD88
The depth of the well is 58 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1965-11-17		D	34.91			2	P		U	
1968-03-19		D	33.19			2			U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	P	Site was being pumped.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

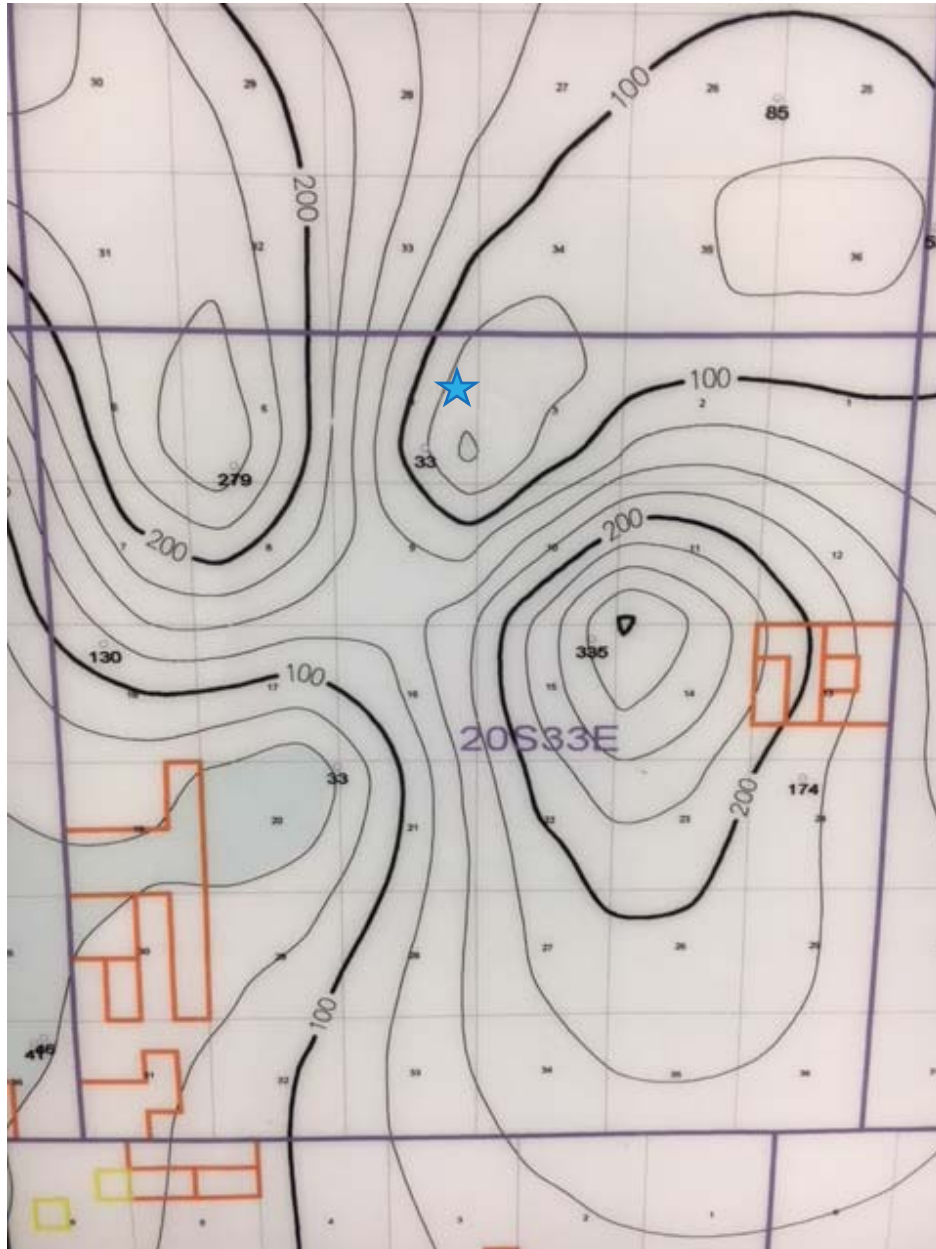
[Questions about sites/data?](#)
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Page Last Modified: 2019-04-01 14:12:05 EDT

0.65 0.59 nadww01

Chevron, Smith 4 Federal #001
U/L H, Section 4, T20S, R33E
Groundwater: 75'





Chevron, Smith 4 Federal #001

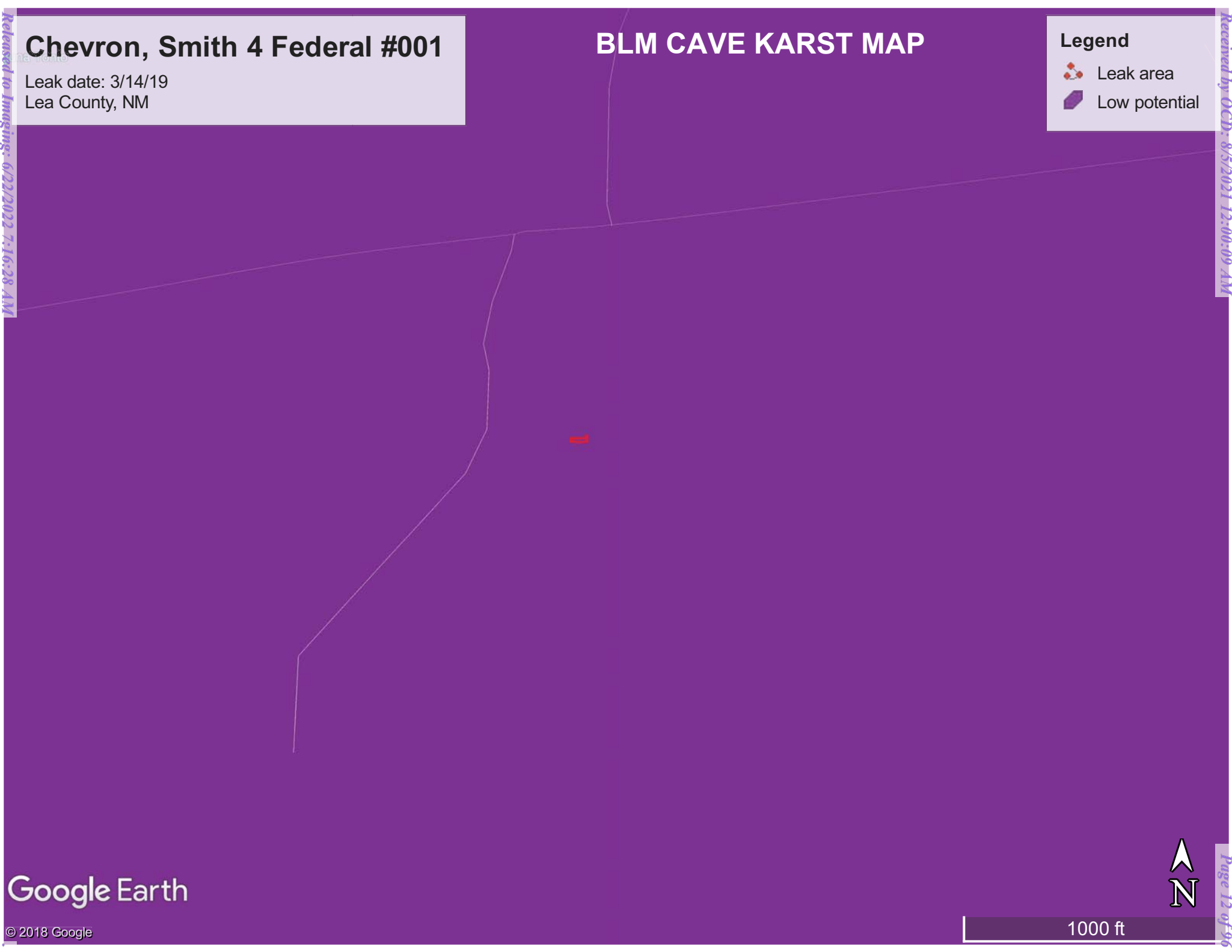
Leak date: 3/14/19
Lea County, NM

BLM CAVE KARST MAP

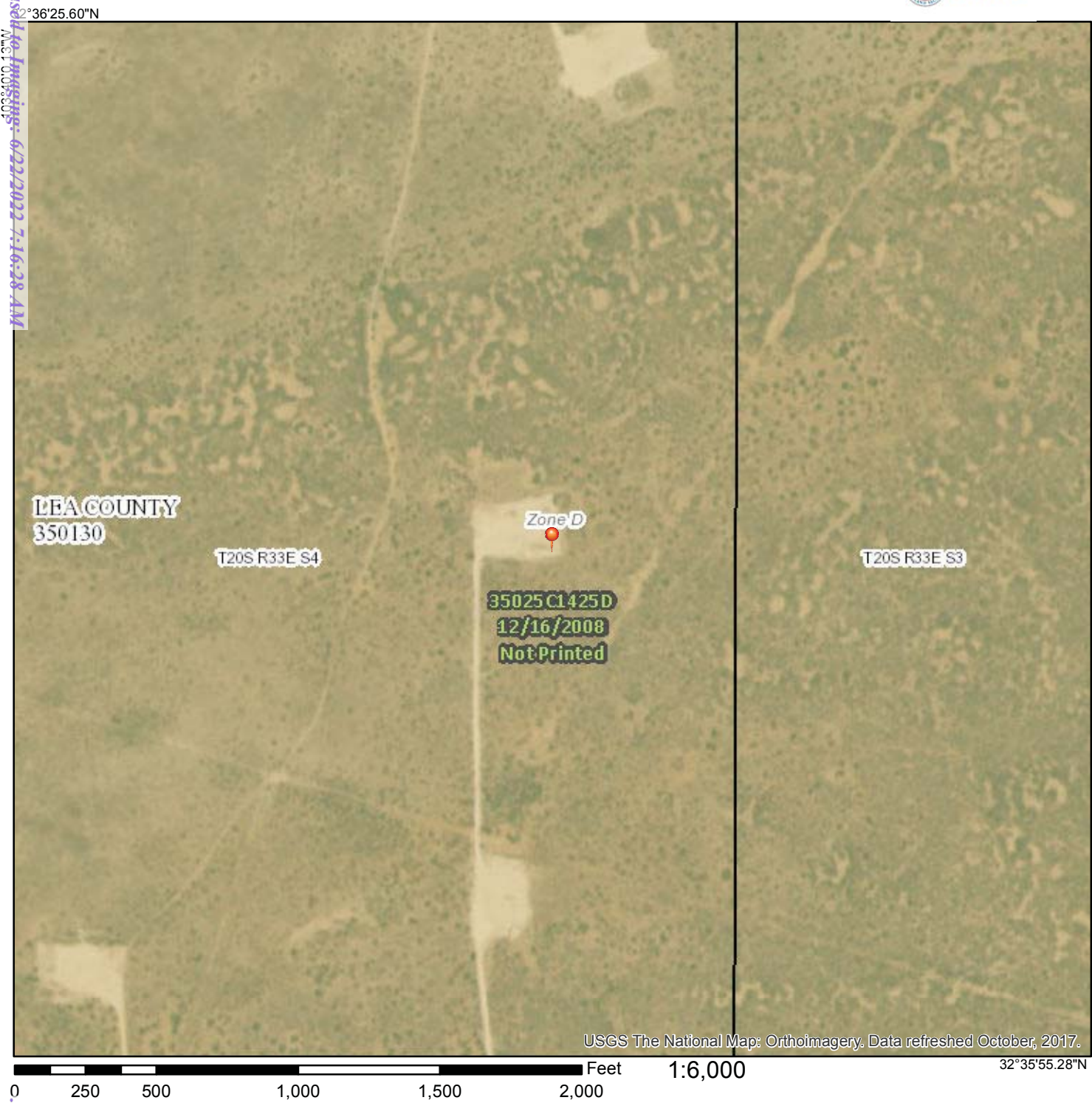
Legend

 Leak area

 Low potential



National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone X
OTHER AREAS		Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/1/2019 at 2:19:42 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Released to: Imaging: 6/22/2022 7:16:28 AM
WMS: 103°39'22.67\"/>

Received by: OCD: 8/2/2021 12:00:09 AM

Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Friday, November 8, 2019 2:07 PM
To: Cliff Brunson; Bratcher, Mike, EMNRD
Cc: EMNRD-OCD-District1spills; Barnhill, Amy D.; Ken Swinney; Jennifer Gilkey; Kathy Purvis; blm_nm_cfo_spill@blm.gov
Subject: RE: [EXT] Re: [EXTERNAL] Chevron - Smith 4 Federal #001 (1RP-5435) - Delineation/Remediation Workplan
Attachments: (C-141 Remediation Plan) Smith 4 Federal #001 (3-14-19) 11.8.19.pdf

Chevron - Smith 4 Federal #001 (1RP-5435) - Delineation/Remediation Workplan

Mr. Brunson,
OCD approves your Delineation/Remediation Workplan for Chevron - Smith 4 Federal #001 (**1RP-5435**).
Regards,

Victoria Venegas
EMNRD
OCD-District II
Artesia NM
Victoria.Venegas@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.

From: Amos, James <jamos@blm.gov>
Sent: Friday, November 8, 2019 9:26 AM
To: Cliff Brunson <cbrunson@bbcinternational.com>
Cc: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Barnhill, Amy D. <ABarnhill@chevron.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: [EXT] Re: [EXTERNAL] Chevron - Smith 4 Federal #001 (1RP-5435) - Delineation/Remediation Workplan

Cliff,

The BLM has reviewed your Delineation/Remediation Workplan for the referenced location. consider this as the BLM authorization to proceed with the remediation as specified. If any questions please get back to me. Thanks

On Fri, Oct 25, 2019 at 4:21 PM Cliff Brunson <cbrunson@bbcinternational.com> wrote:

This is a re-submittal for this plan. It was originally submitted on 6/28/19 and no response has been received as of today. It would be appreciated if you could review this as soon as possible. Chevron looks forward to the approval to proceed.

Thanks, Cliff

All,

Please find the attached Delineation Workplan and remediation proposal for the Chevron Smith 4 Federal #001 (1RP-5435). Chevron is requesting that you review this plan and is looking forward to the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

Shipping Address:

1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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James A. Amos
Bureau of Land Management
Carlsbad Field Office
Supervisory Petroleum Engineering Tech
620 East Greene Street
Carlsbad, NM. 88220
Office: (575) 234-5909
Fax: (575) 234-5927
Cell: (575) 361-2648
E-mail: jamos@blm.gov

Venegas, Victoria, EMNRD

From: Amos, James <jamos@blm.gov>
Sent: Friday, November 8, 2019 9:26 AM
To: Cliff Brunson
Cc: EMNRD-OCD-District1spills; Barnhill, Amy D.; Ken Swinney; Jennifer Gilkey; Kathy Purvis
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Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

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James A. Amos
Bureau of Land Management
Carlsbad Field Office
Supervisory Petroleum Engineering Tech
620 East Greene Street
Carlsbad, NM. 88220
Office: (575) 234-5909
Fax: (575) 234-5927

Cell: (575) 361-2648

E-mail: jamos@blm.gov

Chevron Smith 4 Federal #001

Leak Date: 3-14-2019
Lea County, NM
API: 30-025-36411
Incident ID: NDHR1911338772

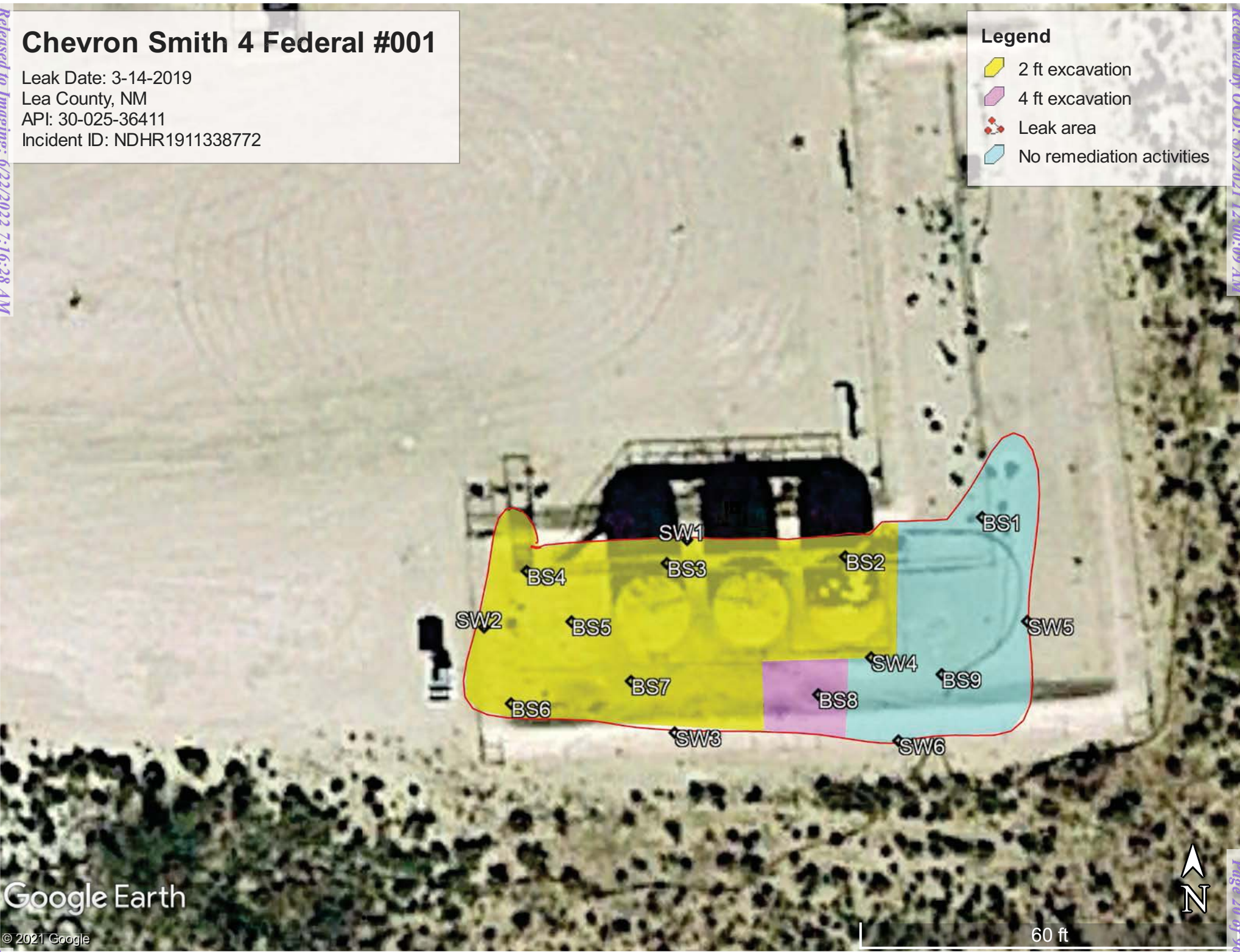
Legend

2 ft excavation

4 ft excavation

Leak area

No remediation activities



Chevron, Smith 4 Federal #001

Confirmation Sample points

BS1, 32.602876, -103.66524
BS2, 32.602858, -103.661591
BS3, 32.602854, -103.661682
BS4, 32.602850, -103.661755
BS5, 32.602832, -103.661734
BS6, 32.602795, -103.661764
BS7, 32.602803, -103.661703
BS8, 32.602798, -103.661606
BS9, 32.602808, -103.661543
SW1, 32.602865, -103.661673
SW2, 32.602827, -103.661778
SW3, 32.602782, -103.661679
SW4, 32.602813, -103.661579
SW5, 32.602829, -103.661498
SW6, 32.602778, -103.661565

Laboratory Analytical Results Summary
Smith 4 Federal #001 (3/14/19)

		Sample ID	BS1	BS2	BS3	BS4	BS5	BS6	BS7	BS8	BS9
Analyte	Method	Date	3/15/21	3/15/21	3/15/21	3/15/21	3/15/21	3/15/21	3/15/21	3/15/21	3/15/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SW1	SW2	SW3	SW4	SW5	SW6
Analyte	Method	Date	3/15/21	3/15/21	3/15/21	3/15/21	3/15/21	3/15/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0



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

March 18, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SMITH 4 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 03/15/21 16:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: BS 1 (H210653-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2021	ND	2.13	107	2.00	1.66	
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47	
Total BTEX	<0.300	0.300	03/17/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.6 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: BS 2 (H210653-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2021	ND	2.13	107	2.00	1.66	
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47	
Total BTX	<0.300	0.300	03/17/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 77.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: BS 3 (H210653-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTX	<0.300	0.300	03/17/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 80.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: BS 4 (H210653-04)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: BS 5 (H210653-05)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTX	<0.300	0.300	03/17/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: BS 6 (H210653-06)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: BS 7 (H210653-07)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTX	<0.300	0.300	03/17/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: BS 8 (H210653-08)

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	03/17/2021	ND	2.13	107	2.00	1.66	
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47	
Total BTX	<0.300	0.300	03/17/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: BS 9 (H210653-09)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	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	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.0 % 42.2-156

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SW 1 (H210653-10)

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	03/17/2021	ND	2.13	107	2.00	1.66	
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47	
Total BTX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	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	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SW 2 (H210653-11)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	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	03/17/2021	ND	215	108	200	6.89	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	215	107	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 80.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.2 % 42.2-156

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SW 3 (H210653-12)

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	03/17/2021	ND	2.13	107	2.00	1.66	
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47	
Total BTX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	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	03/17/2021	ND	215	108	200	6.89	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	215	107	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 78.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SW 4 (H210653-13)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTEX	<0.300	0.300	03/17/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	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	03/17/2021	ND	215	108	200	6.89	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	215	107	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SW 5 (H210653-14)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	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	03/17/2021	ND	215	108	200	6.89	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	215	107	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/15/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SW 6 (H210653-15)

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	03/17/2021	ND	2.13	107	2.00	1.66	
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47	
Total BTX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/17/2021	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	03/17/2021	ND	215	108	200	6.89	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	215	107	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager

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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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A handwritten signature in cursive script, appearing to read "Celey D. Keene", is written in black ink.

Celey D. Keene, Lab Director/Quality Manager

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST of 2

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Owner: Project Name: SMITH 4 FED #1 (3-14-19) Project Location: Lea County, NM Sampler Name: Simon Rendon				BILL TO P.O. #: Company: CHEVRON Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																							
FOR LAB USE ONLY Lab I.D. H210653		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		CL BTEX TPH EXT																	
		1 BS1		9								3-15-21 8:40 AM		✓		✓		✓													
		2 BS2										3-15-21 9:00 AM		✓		✓		✓													
		3 BS3										3-15-21 9:18 AM		✓		✓		✓													
		4 BS4										3-15-21 9:34 AM		✓		✓		✓													
		5 BS5										3-15-21 9:52 AM		✓		✓		✓													
		6 BS6										3-15-21 10:12 AM		✓		✓		✓													
		7 BS7										3-15-21 10:34 AM		✓		✓		✓													
		8 BS8										3-15-21 10:51 AM		✓		✓		✓													
		9 BS9										3-15-21 11:09 AM		✓		✓		✓													
		10 SW1										3-15-21 11:20 AM		✓		✓		✓													

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Relinquished By: Date: 3/15/21 Time: 16:47		Received By: Date: Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:	
Relinquished By: Date: Time:		Received By: Date: Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -4.7 #113		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) TO	

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

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



Chevron U.S.A., Inc.

Natural Gas.
Natural Advantages.

SMITH FEDERAL 4 No. 1
SE/4 NE/4 SECTION 4-20S-33E
40 ACRES - 2310' FNL & 660' FEL
BLM # NM 77074
LEA COUNTY, NM



CAUTION

NO SMOKING OR OPEN FLAMES



Incident ID	
District RP	
Facility ID	
Application ID	



Incident ID	
District RP	
Facility ID	
Application ID	



Incident ID	
District RP	
Facility ID	
Application ID	









10/03/2021





10/03/2021

06/21/2021





10/03/2021

06/21/2021





06/21/2021



06/21/2021

06/21/2021





PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

DELINEATION WORKPLAN

CHEVRON – SMITH 4 FEDERAL #001

(Leak Date: 03/14/19)

RP # 1RP-5435

This delineation workplan and remediation proposal addresses the releases associated with RP # 1RP-5435.

The following information includes:

1. Appropriate completed and signed C-141 pages.
2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
3. GPS information for sample points and sample methodology.
4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results, and/or copy of Chevron groundwater trend map).
5. Watercourse/features map within 1000 feet.
6. BLM Cave Karst map.
7. FEMA National Flood map.
8. Laboratory analysis results summary table and original laboratory analysis reports.
9. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

Chevron will remediate the spill area as depicted on the following site diagram. The leak area near SP1 – SP3 (YELLOW shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP4 (PINK shade on diagram) will be excavated to a depth of 4 feet. The leak areas near SP5 and SP6 (BLUE shade on diagram) will zero remediation.

Bottom and sidewall confirmation samples will be collected at no greater than 75 ft. intervals. Estimated volume of material to be removed is 133 cubic yards. The remediation will be completed within 90 days of plan approval.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Chevron, Smith 4 Federal #001

Leak date: 3/14/19
Lea County, NM
1RP-5435

Legend

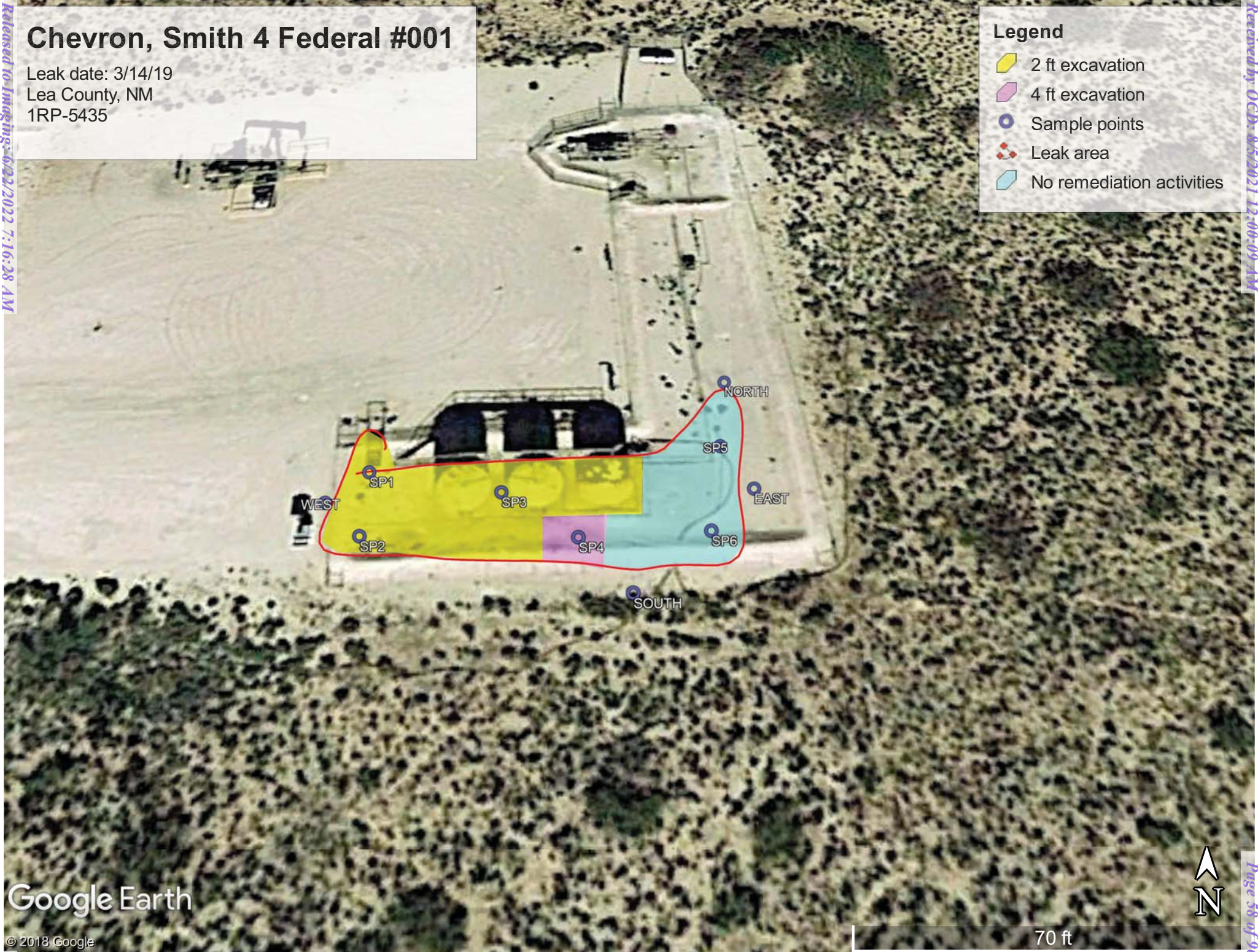
2 ft excavation

4 ft excavation

Sample points

Leak area

No remediation activities



Chevron, Smith 4 Federal #001

Sample points

SP1, N 32.60284 W-103.66176

SP2, N 32.60279 W-103.66176

SP3, N 32.60282 W-103.66166

SP4, N 32.60279 W-103.66161

SP5, N 32.60286 W-103.66151

SP6, N 32.60280 W-103.66152

NORTH, N 32.60291 W-103.66150

SOUTH, N 32.60276 W-103.66157

EAST, N 32.60283 W-103.66148

WEST, N 32.60282 W-103.66178

Laboratory Analytical Results Summary
Smith 4 Federal #001 (3/14/19)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	6/5/19	6/5/19	6/5/19	6/5/19	6/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.231	0.376	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.287	1.69	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.79	5.71	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		2.31	7.78	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		64	32	<16.0	<16.0	<16.0
GRO	TPH 8015M		57.8	163	<10.0	<10.0	<10.0
DRO	TPH 8015M		4120	2130	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		584	82.1	<10.0	<10.0	<10.0

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	6/5/19	6/5/19	6/5/19	6/5/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.073	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.082	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.635	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		0.79	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		128	32	16	16
GRO	TPH 8015M		12.6	<10.0	<10.0	<10.0
DRO	TPH 8015M		910	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		340	<10.0	<10.0	<10.0

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	6/5/19	6/5/19	6/5/19	6/5/19	6/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.107	0.205	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.141	0.848	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.817	2.5	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		1.07	3.55	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		112	32	32	48	32
GRO	TPH 8015M		30.5	59.5	<10.0	<10.0	<10.0
DRO	TPH 8015M		3370	1100	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		923	197	<10.0	<10.0	<10.0

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 4'
Analyte	Method	Date	6/5/19	6/5/19	6/5/19	6/5/19	6/5/19	6/5/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.106	<0.050	<0.050	0.114	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		736	1640	992	448	32	32
GRO	TPH 8015M		13.7	289	195	<10.0	<10.0	<10.0
DRO	TPH 8015M		1460	11800	12700	647	<10.0	<10.0
EXT DRO	TPH 8015M		362	2060	2610	239	<10.0	<10.0

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	6/5/19	6/5/19	6/5/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	16
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		20.7	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	6/5/19	6/5/19	6/5/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32	<16.0	16
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		24.2	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	6/5/19	6/5/19	6/5/19	6/5/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32	32	32	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0



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

June 17, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SMITH 4 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 06/10/19 16:30.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 1 @ SURFACE (H902014-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2019	ND	2.23	111	2.00	1.86	
Toluene*	0.231	0.050	06/13/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	0.287	0.050	06/13/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	1.79	0.150	06/13/2019	ND	6.41	107	6.00	0.159	
Total BTX	2.31	0.300	06/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	64.0	16.0	06/11/2019	ND	416	104	400	3.92		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	57.8	50.0	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	4120	50.0	06/11/2019	ND	209	104	200	0.556	QR-03
EXT DRO >C28-C36	584	50.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 130 % 41-142

Surrogate: 1-Chlorooctadecane 285 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 1 @ 1' (H902014-02)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2019	ND	2.23	111	2.00	1.86	
Toluene*	0.376	0.050	06/13/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	1.69	0.050	06/13/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	5.71	0.150	06/13/2019	ND	6.41	107	6.00	0.159	
Total BTEX	7.78	0.300	06/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	06/11/2019	ND	416	104	400	3.92		

TPH 8015M	mg/kg	Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	163	50.0	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	2130	50.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	82.1	50.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 120 % 41-142

Surrogate: 1-Chlorooctadecane 180 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 1 @ 2' (H902014-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2019	ND	2.23	111	2.00	1.86	
Toluene*	<0.050	0.050	06/13/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	<0.150	0.150	06/13/2019	ND	6.41	107	6.00	0.159	
Total BTX	<0.300	0.300	06/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	<16.0	16.0	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 1 @ 3' (H902014-04)

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	06/13/2019	ND	2.23	111	2.00	1.86		
Toluene*	<0.050	0.050	06/13/2019	ND	2.24	112	2.00	2.52		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	2.15	107	2.00	0.197		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	6.41	107	6.00	0.159		
Total BTEx	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 1 @ 4' (H902014-05)

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	06/13/2019	ND	2.23	111	2.00	1.86		
Toluene*	<0.050	0.050	06/13/2019	ND	2.24	112	2.00	2.52		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	2.15	107	2.00	0.197		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	6.41	107	6.00	0.159		
Total BTX	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	<16.0	16.0	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 2 @ SURFACE (H902014-06)

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	06/13/2019	ND	2.23	111	2.00	1.86	
Toluene*	0.073	0.050	06/13/2019	ND	2.24	112	2.00	2.52	
Ethylbenzene*	0.082	0.050	06/13/2019	ND	2.15	107	2.00	0.197	
Total Xylenes*	0.635	0.150	06/13/2019	ND	6.41	107	6.00	0.159	
Total BTEX	0.790	0.300	06/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	128	16.0	06/11/2019	ND	400	100	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*	12.6	10.0	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	910	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	340	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 141 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 2 @ 1' (H902014-07)

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	06/13/2019	ND	2.23	111	2.00	1.86		
Toluene*	<0.050	0.050	06/13/2019	ND	2.24	112	2.00	2.52		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	2.15	107	2.00	0.197		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	6.41	107	6.00	0.159		
Total BTX	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	32.0	16.0	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Analytical Results For:

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Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 2 @ 2' (H902014-08)

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	06/13/2019	ND	2.23	111	2.00	1.86		
Toluene*	<0.050	0.050	06/13/2019	ND	2.24	112	2.00	2.52		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	2.15	107	2.00	0.197		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	6.41	107	6.00	0.159		
Total BTX	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	16.0	16.0	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Analytical Results For:

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Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 2 @ 3' (H902014-09)

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	06/12/2019	ND	2.27	113	2.00	2.44		
Toluene*	<0.050	0.050	06/12/2019	ND	2.28	114	2.00	1.68		
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	2.12	106	2.00	0.539		
Total Xylenes*	<0.150	0.150	06/12/2019	ND	6.38	106	6.00	1.54		
Total BTX	<0.300	0.300	06/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 3 @ SURFACE (H902014-10)

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	06/13/2019	ND	1.96	98.0	2.00	2.67		
Toluene*	0.107	0.050	06/13/2019	ND	1.97	98.7	2.00	2.72		
Ethylbenzene*	0.141	0.050	06/13/2019	ND	1.82	91.2	2.00	0.756		
Total Xylenes*	0.817	0.150	06/13/2019	ND	5.53	92.1	6.00	1.39		
Total BTEx	1.07	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	112	16.0	06/11/2019	ND	400	100	400	0.00		

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*	30.5	10.0	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	3370	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	923	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 255 % 37.6-147

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Analytical Results For:

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Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 3 @ 1' (H902014-11)

BTX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2019	ND	1.96	98.0	2.00	2.67	
Toluene*	0.205	0.050	06/13/2019	ND	1.97	98.7	2.00	2.72	
Ethylbenzene*	0.848	0.050	06/13/2019	ND	1.82	91.2	2.00	0.756	
Total Xylenes*	2.50	0.150	06/13/2019	ND	5.53	92.1	6.00	1.39	
Total BTX	3.55	0.300	06/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 171 % 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	32.0	16.0	06/11/2019	ND	400	100	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*	59.5	10.0	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	1100	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	197	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 122 % 41-142

Surrogate: 1-Chlorooctadecane 142 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 3 @ 2' (H902014-12)

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	06/13/2019	ND	1.96	98.0	2.00	2.67	
Toluene*	<0.050	0.050	06/13/2019	ND	1.97	98.7	2.00	2.72	
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	1.82	91.2	2.00	0.756	
Total Xylenes*	<0.150	0.150	06/13/2019	ND	5.53	92.1	6.00	1.39	
Total BTX	<0.300	0.300	06/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 98.6 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 3 @ 3' (H902014-13)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2019	ND	2.12	106	2.00	0.0388		
Toluene*	<0.050	0.050	06/12/2019	ND	1.52	75.8	2.00	3.28		
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	1.83	91.4	2.00	4.28		
Total Xylenes*	<0.150	0.150	06/12/2019	ND	4.56	76.0	6.00	4.68		
Total BTX	<0.300	0.300	06/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 3 @ 4' (H902014-14)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	2.12	106	2.00	0.0388	
Toluene*	<0.050	0.050	06/12/2019	ND	1.52	75.8	2.00	3.28	
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	1.83	91.4	2.00	4.28	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	4.56	76.0	6.00	4.68	
Total BTEX	<0.300	0.300	06/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	32.0	16.0	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 4 @ SURFACE (H902014-15)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	2.12	106	2.00	0.0388	
Toluene*	<0.050	0.050	06/12/2019	ND	1.52	75.8	2.00	3.28	
Ethylbenzene*	0.106	0.050	06/12/2019	ND	1.83	91.4	2.00	4.28	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	4.56	76.0	6.00	4.68	
Total BTEX	<0.300	0.300	06/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	736	16.0	06/11/2019	ND	400	100	400	0.00	

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*	13.7	10.0	06/11/2019	ND	237	119	200	0.447		
DRO >C10-C28*	1460	10.0	06/11/2019	ND	209	104	200	0.556		
EXT DRO >C28-C36	362	10.0	06/11/2019	ND						

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 167 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 4 @ 1' (H902014-16)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2019	ND	2.12	106	2.00	0.0388		
Toluene*	<0.050	0.050	06/12/2019	ND	1.52	75.8	2.00	3.28		
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	1.83	91.4	2.00	4.28		
Total Xylenes*	<0.150	0.150	06/12/2019	ND	4.56	76.0	6.00	4.68		
Total BTEx	<0.300	0.300	06/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	1640	16.0	06/11/2019	ND	400	100	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*	289	50.0	06/12/2019	ND	237	119	200	0.447	
DRO >C10-C28*	11800	50.0	06/12/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	2060	50.0	06/12/2019	ND					

Surrogate: 1-Chlorooctane 164 % 41-142

Surrogate: 1-Chlorooctadecane 497 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 4 @ 2' (H902014-17)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2019	ND	2.12	106	2.00	0.0388		
Toluene*	<0.050	0.050	06/12/2019	ND	1.52	75.8	2.00	3.28		
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	1.83	91.4	2.00	4.28		
Total Xylenes*	<0.150	0.150	06/12/2019	ND	4.56	76.0	6.00	4.68		
Total BTEX	<0.300	0.300	06/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	992	16.0	06/11/2019	ND	400	100	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*	195	50.0	06/12/2019	ND	237	119	200	0.447	
DRO >C10-C28*	12700	50.0	06/12/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	2610	50.0	06/12/2019	ND					

Surrogate: 1-Chlorooctane 152 % 41-142

Surrogate: 1-Chlorooctadecane 536 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 4 @ 3' (H902014-18)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2019	ND	2.12	106	2.00	0.0388	
Toluene*	<0.050	0.050	06/12/2019	ND	1.52	75.8	2.00	3.28	
Ethylbenzene*	0.114	0.050	06/12/2019	ND	1.83	91.4	2.00	4.28	
Total Xylenes*	<0.150	0.150	06/12/2019	ND	4.56	76.0	6.00	4.68	
Total BTX	<0.300	0.300	06/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	448	16.0	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	647	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	239	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 4 @ 4' (H902014-19)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2019	ND	2.12	106	2.00	0.0388		
Toluene*	<0.050	0.050	06/12/2019	ND	1.52	75.8	2.00	3.28		
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	1.83	91.4	2.00	4.28		
Total Xylenes*	<0.150	0.150	06/12/2019	ND	4.56	76.0	6.00	4.68		
Total BTEX	<0.300	0.300	06/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	32.0	16.0	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
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 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 4 @ 5' (H902014-20)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2019	ND	2.12	106	2.00	0.0388		
Toluene*	<0.050	0.050	06/12/2019	ND	1.52	75.8	2.00	3.28		
Ethylbenzene*	<0.050	0.050	06/12/2019	ND	1.83	91.4	2.00	4.28		
Total Xylenes*	<0.150	0.150	06/12/2019	ND	4.56	76.0	6.00	4.68		
Total BTEX	<0.300	0.300	06/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 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	06/11/2019	ND	400	100	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	06/11/2019	ND	237	119	200	0.447	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	209	104	200	0.556	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
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 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 5 @ SURFACE (H902014-21)

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	06/14/2019	ND	1.96	98.0	2.00	2.67		
Toluene*	<0.050	0.050	06/14/2019	ND	1.97	98.7	2.00	2.72		
Ethylbenzene*	<0.050	0.050	06/14/2019	ND	1.82	91.2	2.00	0.756		
Total Xylenes*	<0.150	0.150	06/14/2019	ND	5.53	92.1	6.00	1.39		
Total BTEx	<0.300	0.300	06/14/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	<16.0	16.0	06/11/2019	ND	400	100	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	06/11/2019	ND	251	125	200	1.49	QM-07
DRO >C10-C28*	20.7	10.0	06/11/2019	ND	220	110	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 122 % 41-142

Surrogate: 1-Chlorooctadecane 127 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 5 @ 1' (H902014-22)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2019	ND	2.20	110	2.00	7.28	
Toluene*	<0.050	0.050	06/13/2019	ND	2.06	103	2.00	2.21	
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	2.36	118	2.00	5.72	
Total Xylenes*	<0.150	0.150	06/13/2019	ND	6.59	110	6.00	20.8	
Total BTEx	<0.300	0.300	06/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 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	<16.0	16.0	06/11/2019	ND	400	100	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	06/11/2019	ND	251	125	200	1.49	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	220	110	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 5 @ 2' (H902014-23)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2019	ND	2.20	110	2.00	7.28		
Toluene*	<0.050	0.050	06/13/2019	ND	2.06	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	2.36	118	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	6.59	110	6.00	20.8		
Total BTEx	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	06/12/2019	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	06/11/2019	ND	251	125	200	1.49	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	220	110	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Analytical Results For:

BBC International, Inc.
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 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 6 @ SURFACE (H902014-24)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2019	ND	2.20	110	2.00	7.28		
Toluene*	<0.050	0.050	06/13/2019	ND	2.06	103	2.00	2.21		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	2.36	118	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	6.59	110	6.00	20.8		
Total BTEx	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 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	32.0	16.0	06/12/2019	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	06/11/2019	ND	251	125	200	1.49	
DRO >C10-C28*	24.2	10.0	06/11/2019	ND	220	110	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 6 @ 1' (H902014-25)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2019	ND	1.93	96.5	2.00	1.01		
Toluene*	<0.050	0.050	06/13/2019	ND	1.90	95.2	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	1.85	92.3	2.00	2.53		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	5.70	95.0	6.00	2.20		
Total BTEx	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	<16.0	16.0	06/12/2019	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	06/11/2019	ND	251	125	200	1.49	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	220	110	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Analytical Results For:

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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SP 6 @ 2' (H902014-26)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2019	ND	1.93	96.5	2.00	1.01		
Toluene*	<0.050	0.050	06/13/2019	ND	1.90	95.2	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	1.85	92.3	2.00	2.53		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	5.70	95.0	6.00	2.20		
Total BTEx	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	16.0	16.0	06/12/2019	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	06/11/2019	ND	251	125	200	1.49	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	220	110	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 120 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
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 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: NORTH @ SURFACE (H902014-27)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2019	ND	1.93	96.5	2.00	1.01		
Toluene*	<0.050	0.050	06/13/2019	ND	1.90	95.2	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	1.85	92.3	2.00	2.53		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	5.70	95.0	6.00	2.20		
Total BTEx	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	32.0	16.0	06/12/2019	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	06/11/2019	ND	251	125	200	1.49	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	220	110	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: EAST @ SURFACE (H902014-28)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2019	ND	1.93	96.5	2.00	1.01		
Toluene*	<0.050	0.050	06/13/2019	ND	1.90	95.2	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	1.85	92.3	2.00	2.53		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	5.70	95.0	6.00	2.20		
Total BTEx	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	06/12/2019	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	06/11/2019	ND	251	125	200	1.49	
DRO >C10-C28*	<10.0	10.0	06/11/2019	ND	220	110	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/11/2019	ND					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Analytical Results For:

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Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: WEST @ SURFACE (H902014-29)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2019	ND	1.93	96.5	2.00	1.01		
Toluene*	<0.050	0.050	06/13/2019	ND	1.90	95.2	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	1.85	92.3	2.00	2.53		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	5.70	95.0	6.00	2.20		
Total BTEx	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	32.0	16.0	06/12/2019	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	06/12/2019	ND	251	125	200	1.49	
DRO >C10-C28*	<10.0	10.0	06/12/2019	ND	220	110	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/12/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/10/2019	Sampling Date:	06/05/2019
Reported:	06/17/2019	Sampling Type:	Soil
Project Name:	SMITH 4 FEDERAL #001	Sampling Condition:	Cool & Intact
Project Number:	(3/14/19)	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - LEA CO NM		

Sample ID: SOUTH @ SURFACE (H902014-30)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2019	ND	1.93	96.5	2.00	1.01		
Toluene*	<0.050	0.050	06/13/2019	ND	1.90	95.2	2.00	2.61		
Ethylbenzene*	<0.050	0.050	06/13/2019	ND	1.85	92.3	2.00	2.53		
Total Xylenes*	<0.150	0.150	06/13/2019	ND	5.70	95.0	6.00	2.20		
Total BTEx	<0.300	0.300	06/13/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	32.0	16.0	06/12/2019	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	06/12/2019	ND	251	125	200	1.49	
DRO >C10-C28*	<10.0	10.0	06/12/2019	ND	220	110	200	7.15	
EXT DRO >C28-C36	<10.0	10.0	06/12/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 3

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Cliff Brunson				P.O. #:																					
Address: P.O. Box 805				Company: <i>BBC</i>																					
City: Hobbs State: NM Zip: 88241				Attn: <i>Gilkey</i>																					
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																					
Project #: Project Owner: <i>Chesron</i>				City:																					
Project Name: Smith 4 Federal #001 (3/14/19)				State: Zip:																					
Project Location: Lea County, NM				Phone #:																					
Sampler Name: Jeff Ornelas				Fax #:																					
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											
<i>H902014</i>															<i>BTEX</i>	<i>CI</i>	<i>TPH/PAH</i>								
<i>11</i>	SP3 @ 1'												6/5/19	10:25 AM	✓	✓	✓								
<i>12</i>	SP3 @ 2'												6/5/19	10:40 AM	✓	✓	✓								
<i>13</i>	SP3 @ 3'												6/5/19	10:50 AM	✓	✓	✓								
<i>14</i>	SP3 @ 4'												6/5/19	11:11 AM	✓	✓	✓								
<i>15</i>	SP4 @ SURFACE												6/5/19	11:15 AM	✓	✓	✓								
<i>16</i>	SP4 @ 1'												6/5/19	11:20 AM	✓	✓	✓								
<i>17</i>	SP4 @ 2'												6/5/19	11:30 AM	✓	✓	✓								
<i>18</i>	SP4 @ 3'												6/5/19	11:46 AM	✓	✓	✓								
<i>19</i>	SP4 @ 4'												6/5/19	11:50 AM	✓	✓	✓								
<i>20</i>	SP4 @ 5'												6/5/19	12:12 PM	✓	✓	✓								

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>6/5/19</i>	Received By: <i>Isaac Pena</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>3:30pm</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Isaac Pena</i>	Date: <i>6/10/19</i>	Received By: <i>Isaac Pena</i>	REMARKS:	
	Time: <i>4:30PM</i>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>TO</i>		
	<i>2.3c H97</i>			

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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 39905

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 39905
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	6/22/2022