

see C-141 Remediation Plan
for further details

WV - 11/15/2022



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DELINEATION/REMEDATION WORKPLAN

OXY – BRAVO DOME 1835-52E LEG 7 (Leak Date: 11/2/20)

Incident ID: NAPP2113042718

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NAPP2113042718.

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).
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 rules, the following remediation is proposed:

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 and SP5 (YELLOW shade on diagram) will require zero remediation. The leak area near SP2 (GREEN shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP3 (BLUE shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP4 (PURPLE shade on diagram) will be excavated to a depth of 1 foot.

OXY will collect bottom and sidewall confirmation samples every 200 square feet. The estimated amount of soil to be excavated is 286 cubic yards. The remediation will be completed within 90 days of approval.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate agency or private surface owner.
All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NAPP2113042718
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	182 (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 1/2-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. 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	NAPP2113042718
District RP	
Facility ID	
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: Wade DittrichTitle: Environmental CoordinatorSignature: Date: 6-26-21email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

Received by: _____

Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NAPP2113042718
District RP	
Facility ID	
Application ID	

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: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 6-7-21
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

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

Signature:  Date: 11/15/2022

Remediation plan approved with the following conditions for final closure report content;

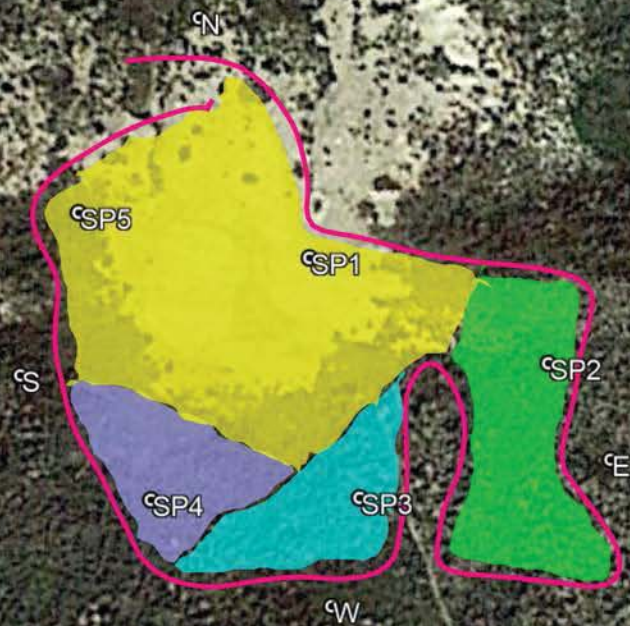
1. Provide executive summary of work
2. Wetland & Karst maps
3. Topo map showing any well head protection areas within 1/2 mile from the release
4. Aerial map showing any significant watercourse within 1/2 mile of any horizontal boundary of the release
5. Clearly show horizontal delineation/confirmation samples for entire release perimeter
6. All confirmation samples must meet reclamation standards for 0-4 ft. below grade (chloride - 600 mg/kg, total TPH - 100 mg/kg, benzene - 10 mg/kg, total BTEX - 50 mg/kg)
7. Any/all field notes
8. Photos prior to backfilling showing; Title/Header, date/time of photo, orientation of photo (direction viewed), GIS data for any/all sample points, annotation or explanation to imagery content
9. Remedial activity documentation [e.g. confirmation sampling notification(s)]
10. Deadline to complete remediation and submit final report: 2/15/2023.

Oxy Bravo Dome 1835-52E Leg7

Leak Date: 11/2/20
Union County, NM
Incident ID: NAPP2113042718

Legend

- 1' Excavation
- 2' Excavation
- 3' Excavation
- Leak Area
- Sample Point
- Zero Excavation



BRAVO DOME 1835-52E LEG 7
SAMPLE POINTS

SP1	N 35.822182°	W-103.246830°
SP2	N 35.822114°	W-103.246641°
SP3	N35.822028°	W-103.246790°
SP4	N 35.822027°	W-103.246955°
SP5	N 35.822211°	W-103.247012°
NORTH	N 35.822336°	W-103.246917°
EAST	N 35.822053°	W-103.246592°
WEST	N 35.821959°	W-103.246812°
SOUTH	N 35.822107°	W-103.247058°

Laboratory Analytical Results Summary
Oxy, BRAVO DOME 1835 052E(11-30-20)

		Sample ID	SP N @ SURFACE	SP N @ SURFACE	SP N @ SURFACE	SP N @ SURFACE
Analyte	Method	Date	5/10/21	5/10/21	5/10/21	5/10/21
			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		80.0	48.0	32.0	80.0
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

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	5/10/21	5/10/21	5/10/21
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A
Chloride	SM4500Cl-B		224.0	256.0	48
GRO	TPH 8015M		<10.0	<10.0	N/A
DRO	TPH 8015M		<10.0	<10.0	N/A
EXT DRO	TPH 8015M		<10.0	<10.0	N/A

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	5/10/21	5/10/21	5/10/21	5/11/21
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A	N/A
Chloride	SM4500Cl-B		96.0	2200.0	224	112
GRO	TPH 8015M		<10.0	<10.0	N/A	N/A
DRO	TPH 8015M		10.3	<10.0	N/A	N/A
EXT DRO	TPH 8015M		<10.0	<10.0	N/A	N/A

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'	SP3 @ 6'
Analyte	Method	Date	5/10/21	5/10/21	5/10/21	5/10/21	5/10/21	5/10/21	5/10/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	N/A	N/A	N/A	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A	N/A	N/A	N/A	N/A
Chloride	SM4500Cl-B		8000.0	12100.0	7730	560	544	64	32
GRO	TPH 8015M		<10.0	<10.0	N/A	N/A	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	<10.0	N/A	N/A	N/A	N/A	N/A
EXT DRO	TPH 8015M		<10.0	<10.0	N/A	N/A	N/A	N/A	N/A

Laboratory Analytical Results Summary
Oxy, BRAVO DOME 1835 052E(11-30-20)

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	5/11/21	5/11/21	5/11/21
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A
Chloride	SM4500Cl-B		23200.0	112.0	96
GRO	TPH 8015M		<10.0	<10.0	N/A
DRO	TPH 8015M		<10.0	<10.0	N/A
EXT DRO	TPH 8015M		<10.0	<10.0	N/A

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	5/11/21	5/11/21	5/11/21
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A
Chloride	SM4500Cl-B		272.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	N/A
DRO	TPH 8015M		<10.0	<10.0	N/A
EXT DRO	TPH 8015M		<10.0	<10.0	N/A



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

May 20, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BRAVO DOME 1835 052 E

Enclosed are the results of analyses for samples received by the laboratory on 05/17/21 16:45.

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 style with a large, stylized 'C' and 'K'.

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:	05/17/2021	Sampling Date:	05/10/2021
Reported:	05/20/2021	Sampling Type:	Soil
Project Name:	BRAVO DOME 1835 052 E	Sampling Condition:	Cool & Intact
Project Number:	(11-30-20)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP N @ SURFACE (H211281-01)

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	05/19/2021	ND	1.82	91.1	2.00	4.76	
Toluene*	<0.050	0.050	05/19/2021	ND	2.05	102	2.00	5.82	
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	2.10	105	2.00	5.61	
Total Xylenes*	<0.150	0.150	05/19/2021	ND	6.21	103	6.00	6.19	
Total BTEX	<0.300	0.300	05/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/19/2021	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	05/18/2021	ND	224	112	200	4.98	
DRO >C10-C28*	<10.0	10.0	05/18/2021	ND	223	111	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP E @ SURFACE (H211281-02)

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	05/19/2021	ND	1.82	91.1	2.00	4.76		
Toluene*	<0.050	0.050	05/19/2021	ND	2.05	102	2.00	5.82		
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	2.10	105	2.00	5.61		
Total Xylenes*	<0.150	0.150	05/19/2021	ND	6.21	103	6.00	6.19		
Total BTX	<0.300	0.300	05/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/19/2021	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	05/18/2021	ND	224	112	200	4.98	
DRO >C10-C28*	<10.0	10.0	05/18/2021	ND	223	111	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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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:	05/17/2021	Sampling Date:	05/10/2021
Reported:	05/20/2021	Sampling Type:	Soil
Project Name:	BRAVO DOME 1835 052 E	Sampling Condition:	Cool & Intact
Project Number:	(11-30-20)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP W @ SURFACE (H211281-03)

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	05/19/2021	ND	1.82	91.1	2.00	4.76		
Toluene*	<0.050	0.050	05/19/2021	ND	2.05	102	2.00	5.82		
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	2.10	105	2.00	5.61		
Total Xylenes*	<0.150	0.150	05/19/2021	ND	6.21	103	6.00	6.19		
Total BTX	<0.300	0.300	05/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	05/19/2021	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	05/18/2021	ND	224	112	200	4.98	
DRO >C10-C28*	<10.0	10.0	05/18/2021	ND	223	111	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP S @ SURFACE (H211281-04)

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	05/19/2021	ND	1.82	91.1	2.00	4.76		
Toluene*	<0.050	0.050	05/19/2021	ND	2.05	102	2.00	5.82		
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	2.10	105	2.00	5.61		
Total Xylenes*	<0.150	0.150	05/19/2021	ND	6.21	103	6.00	6.19		
Total BTEx	<0.300	0.300	05/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/19/2021	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	05/18/2021	ND	224	112	200	4.98	
DRO >C10-C28*	<10.0	10.0	05/18/2021	ND	223	111	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H211281-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2021	ND	1.82	91.1	2.00	4.76		
Toluene*	<0.050	0.050	05/19/2021	ND	2.05	102	2.00	5.82		
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	2.10	105	2.00	5.61		
Total Xylenes*	<0.150	0.150	05/19/2021	ND	6.21	103	6.00	6.19		
Total BTEx	<0.300	0.300	05/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/19/2021	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	05/18/2021	ND	224	112	200	4.98	
DRO >C10-C28*	<10.0	10.0	05/18/2021	ND	223	111	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 38.9-142

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H211281-06)

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	05/19/2021	ND	1.82	91.1	2.00	4.76		
Toluene*	<0.050	0.050	05/19/2021	ND	2.05	102	2.00	5.82		
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	2.10	105	2.00	5.61		
Total Xylenes*	<0.150	0.150	05/19/2021	ND	6.21	103	6.00	6.19		
Total BTEx	<0.300	0.300	05/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/19/2021	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	05/18/2021	ND	224	112	200	4.98	
DRO >C10-C28*	<10.0	10.0	05/18/2021	ND	223	111	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.5 % 38.9-142

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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2' (H211281-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/19/2021	ND	416	104	400	0.00		

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Received: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H211281-08)

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	05/19/2021	ND	1.82	91.1	2.00	4.76	
Toluene*	<0.050	0.050	05/19/2021	ND	2.05	102	2.00	5.82	
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	2.10	105	2.00	5.61	
Total Xylenes*	<0.150	0.150	05/19/2021	ND	6.21	103	6.00	6.19	
Total BTX	<0.300	0.300	05/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/19/2021	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	05/18/2021	ND	224	112	200	4.98	
DRO >C10-C28*	10.3	10.0	05/18/2021	ND	223	111	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	05/18/2021	ND					

Surrogate: 1-Chlorooctane 96.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.7 % 38.9-142

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 1' (H211281-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2021	ND	1.82	91.1	2.00	4.76		
Toluene*	<0.050	0.050	05/20/2021	ND	2.05	102	2.00	5.82		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	2.10	105	2.00	5.61		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	6.21	103	6.00	6.19		
Total BTEx	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	05/19/2021	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	05/19/2021	ND	224	112	200	4.98	
DRO >C10-C28*	<10.0	10.0	05/19/2021	ND	223	111	200	7.06	
EXT DRO >C28-C36	<10.0	10.0	05/19/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 38.9-142

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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:	05/17/2021	Sampling Date:	05/10/2021
Reported:	05/20/2021	Sampling Type:	Soil
Project Name:	BRAVO DOME 1835 052 E	Sampling Condition:	Cool & Intact
Project Number:	(11-30-20)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 2 @ 2' (H211281-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/19/2021	ND	416	104	400	0.00	

Sample ID: SP 2 @ 3' (H211281-11)

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	05/19/2021	ND	416	104	400	0.00	

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/10/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ SURFACE (H211281-12)

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	05/19/2021	ND	1.89	94.6	2.00	7.87		
Toluene*	<0.050	0.050	05/19/2021	ND	1.91	95.4	2.00	7.95		
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	1.88	93.8	2.00	7.76		
Total Xylenes*	<0.150	0.150	05/19/2021	ND	5.71	95.1	6.00	7.36		
Total BTX	<0.300	0.300	05/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	05/19/2021	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	05/19/2021	ND	216	108	200	8.07	
DRO >C10-C28*	<10.0	10.0	05/19/2021	ND	201	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/19/2021	ND					

Surrogate: 1-Chlorooctane 75.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.3 % 38.9-142

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/11/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1' (H211281-13)

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	05/19/2021	ND	1.89	94.6	2.00	7.87		
Toluene*	<0.050	0.050	05/19/2021	ND	1.91	95.4	2.00	7.95		
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	1.88	93.8	2.00	7.76		
Total Xylenes*	<0.150	0.150	05/19/2021	ND	5.71	95.1	6.00	7.36		
Total BTX	<0.300	0.300	05/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12100	16.0	05/19/2021	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	05/19/2021	ND	216	108	200	8.07	
DRO >C10-C28*	<10.0	10.0	05/19/2021	ND	201	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/19/2021	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.9 % 38.9-142

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/11/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 2' (H211281-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7330	16.0	05/19/2021	ND	416	104	400	0.00		

Sample ID: SP 3 @ 3' (H211281-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	05/19/2021	ND	416	104	400	0.00	

Sample ID: SP 3 @ 4' (H211281-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	05/19/2021	ND	416	104	400	0.00	

Sample ID: SP 3 @ 5' (H211281-17)

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	05/19/2021	ND	416	104	400	0.00	

Sample ID: SP 3 @ 6' (H211281-18)

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	05/19/2021	ND	416	104	400	0.00	

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/11/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ SURFACE (H211281-19)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2021	ND	1.89	94.6	2.00	7.87		
Toluene*	<0.050	0.050	05/19/2021	ND	1.91	95.4	2.00	7.95		
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	1.88	93.8	2.00	7.76		
Total Xylenes*	<0.150	0.150	05/19/2021	ND	5.71	95.1	6.00	7.36		
Total BTEx	<0.300	0.300	05/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23200	16.0	05/19/2021	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	05/19/2021	ND	216	108	200	8.07	
DRO >C10-C28*	<10.0	10.0	05/19/2021	ND	201	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/19/2021	ND					

Surrogate: 1-Chlorooctane 76.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.4 % 38.9-142

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/11/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 1' (H211281-20)

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	05/19/2021	ND	1.89	94.6	2.00	7.87	
Toluene*	<0.050	0.050	05/19/2021	ND	1.91	95.4	2.00	7.95	
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	1.88	93.8	2.00	7.76	
Total Xylenes*	<0.150	0.150	05/19/2021	ND	5.71	95.1	6.00	7.36	
Total BTX	<0.300	0.300	05/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/19/2021	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	05/19/2021	ND	216	108	200	8.07	
DRO >C10-C28*	<10.0	10.0	05/19/2021	ND	201	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/19/2021	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.1 % 38.9-142

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/11/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 2' (H211281-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/19/2021	ND	416	104	400	0.00	

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/11/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ SURFACE (H211281-22)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2021	ND	1.89	94.6	2.00	7.87		
Toluene*	<0.050	0.050	05/19/2021	ND	1.91	95.4	2.00	7.95		
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	1.88	93.8	2.00	7.76		
Total Xylenes*	<0.150	0.150	05/19/2021	ND	5.71	95.1	6.00	7.36		
Total BTX	<0.300	0.300	05/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/19/2021	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	05/19/2021	ND	216	108	200	8.07	
DRO >C10-C28*	<10.0	10.0	05/19/2021	ND	201	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/19/2021	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.0 % 38.9-142

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/11/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 1' (H211281-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/19/2021	ND	1.89	94.6	2.00	7.87		
Toluene*	<0.050	0.050	05/19/2021	ND	1.91	95.4	2.00	7.95		
Ethylbenzene*	<0.050	0.050	05/19/2021	ND	1.88	93.8	2.00	7.76		
Total Xylenes*	<0.150	0.150	05/19/2021	ND	5.71	95.1	6.00	7.36		
Total BTEX	<0.300	0.300	05/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

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	05/19/2021	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	05/19/2021	ND	216	108	200	8.07	
DRO >C10-C28*	<10.0	10.0	05/19/2021	ND	201	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	05/19/2021	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.8 % 38.9-142

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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: 05/17/2021
 Reported: 05/20/2021
 Project Name: BRAVO DOME 1835 052 E
 Project Number: (11-30-20)
 Project Location: OXY

Sampling Date: 05/11/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 2' (H211281-24)

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	05/19/2021	ND	416	104	400	0.00		

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Notes and Definitions

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 cursive script, appearing to read "Celey D. Keene", 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

Company Name: BBC International, Inc.				BILL TO												ANALYSIS REQUEST																	
Project Manager: Cliff Brunson				P.O. #:																													
Address: P.O. Box 805				Company: OXY																													
City: Hobbs		State: NM Zip: 88241		Attn: WADE																													
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																													
Project #:		Project Owner: Oxy		City:																													
Project Name: BRAVO DOME 1835 052 E (11-3-20)				State: Zip:																													
Project Location:				Phone #:																													
Sampler Name: SIMON RENDON				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		CL		BTEX		TPH		EXT	
H211281				G		1																5-10-21		1:45		✓		✓		✓			
1		SP N @ SURFACE																				5-10-21		2:12		✓		✓		✓			
2		SP E @ SURFACE																				5-10-21		2:22		✓		✓		✓			
3		SP W @ SURFACE																				5-10-21		2:36		✓		✓		✓			
4		SP S @ SURFACE																				5-10-21		2:50		✓		✓		✓			
5		SP1 @ SURFACE																				5-10-21		3:08		✓		✓		✓			
6		SP1 @ 1'																				5-10-21		3:19		✓							
7		SP1 @ 2'																				5-10-21		3:30		✓		✓		✓			
8		SP2 @ SURFACE																				5-10-21		3:43		✓		✓		✓			
9		SP2 @ 1'																				5-10-21		3:54		✓							
10		SP2 @ 2'																				5-10-21		3:54		✓							

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Relinquished By: <i>Simon Rendón</i>		Date: 5-17-21	Received By: <i>Israel Kena</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 8:00 AM				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Israel Kena</i>		Date: 5-17-21	Received By: <i>Isabella Delacruz</i>	REMARKS:	
Time: 4:45 PM					
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Cool Intact		✓	
0.8c #113		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No			

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Enter an address, place, or coordinates: ?

W 103.24696 N 35.82234

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Whether you are in a high risk zone or not, you may need [flood insurance \(https://www.fema.gov/national-flood-insurance-program\)](https://www.fema.gov/national-flood-insurance-program) because most homeowners insurance doesn't cover flood damage. If you live in an area with low or moderate flood risk, you are 5 times more likely to experience flood than a fire in your home over the next 30 years. For many, a National Flood Insurance Program's flood insurance policy could cost less than \$400 per year. Call your insurance agent today and protect what you've built.

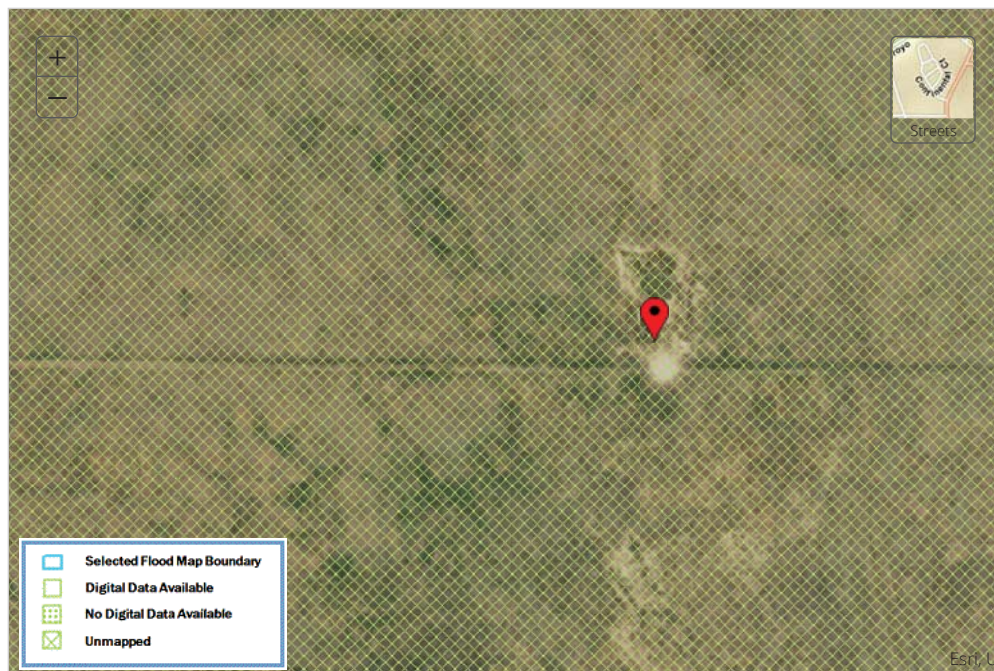
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FEMA has not completed a study to determine flood hazard for the selected location; therefore, a flood map has not been published at this time. You can contact your community or the FEMA FMIX for more information about flood risk and flood insurance in your community.

You can choose a new flood map or move the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. It may take a minute or more during peak hours to generate a dynamic FIRMette. If you are a person with a disability, are blind, or have low vision, and need assistance, please contact a map specialist (<https://msc.fema.gov/portal/resources/contact>).



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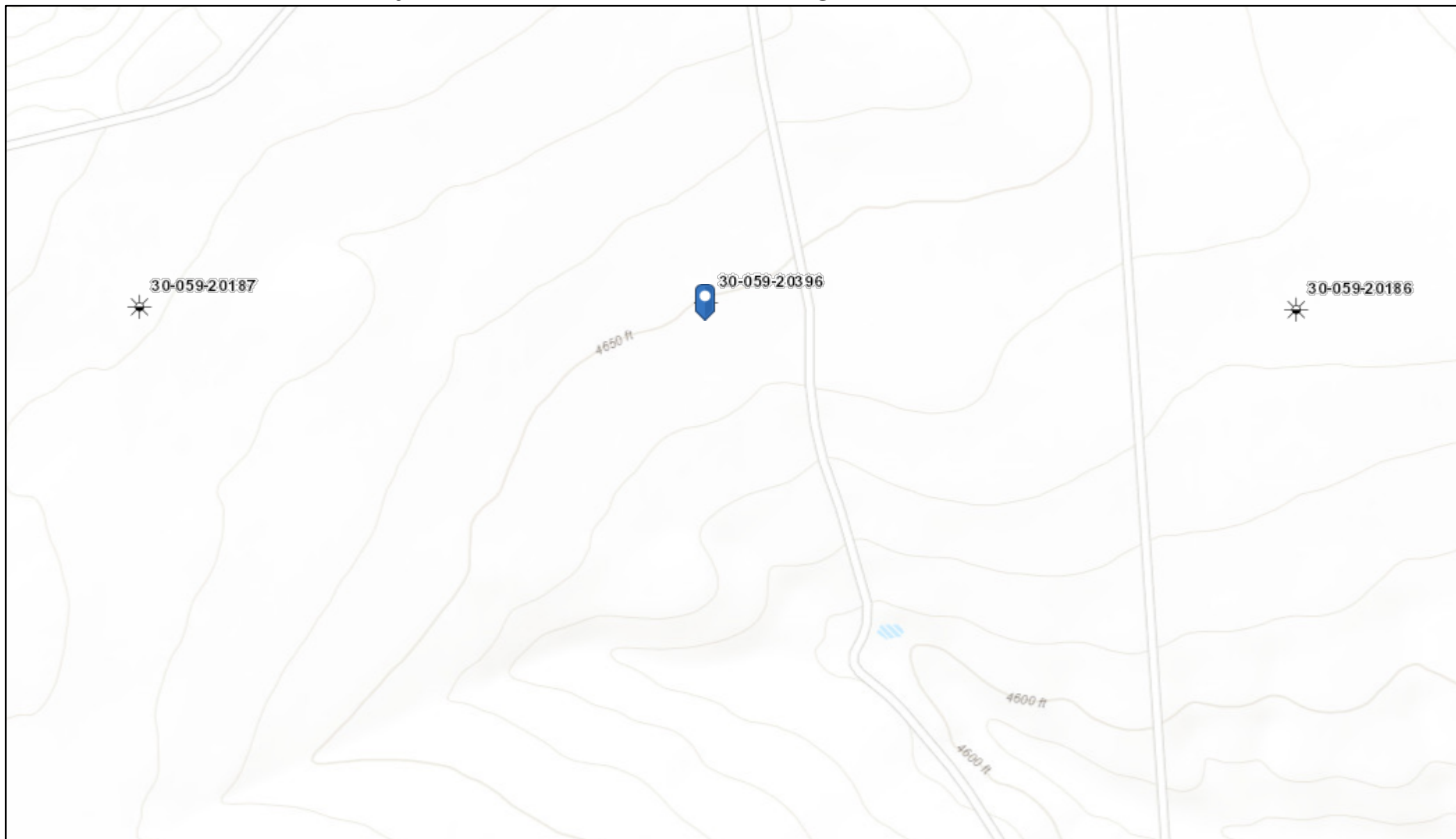
<http://www.dhs.gov>, [Ready.gov \(http://www.ready.gov\)](http://www.ready.gov), [USA.gov \(http://www.usa.gov\)](http://www.usa.gov), DisasterAssistance.gov
(<http://www.disasterassistance.gov/>)



(<https://www.oig.dhs.gov/hotline>)

 Official website of the Department of Homeland Security

Oxy, Bravo Dome 1835 52E Leg 7 - 1739.8 ft' H2O



6/28/2021, 3:53:26 PM

Wells - Large Scale



CO2, Cancelled



Gas, Active



Gas, Temporarily Abandoned



Injection, Plugged



undefined



CO2, New



Gas, Cancelled



Injection, Active



Miscellaneous



CO2, Plugged



Gas, New



Injection, Cancelled



CO2, Active



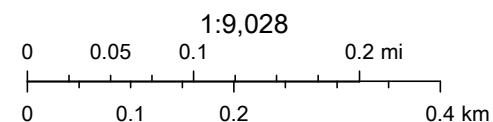
CO2, Temporarily Abandoned



Gas, Plugged



Injection, New



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD

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National Water Information System: Web Interface


USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 354656103124501

Minimum number of levels = 1








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USGS 354656103124501 18N.35E.22.111

Union County, New Mexico
Latitude 35°46'56", Longitude 103°12'45" NAD27
Land-surface elevation 4,615 feet above NGVD29
The depth of the well is 205 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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Date	Time	 Water-level date-time accuracy	 Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	 Status	 Method of measurement	 Measuring agency	 Source of measurement	 Water-level approval status
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1981-02-11			D 62610		4432.40	NGVD29	1	Z			A
1981-02-11			D 62611		4434.48	NAVD88	1	Z			A
1981-02-11			D 72019	182.60			1	Z			A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 38232

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	38232
Action Type:	
[C-141] Release Corrective Action (C-141)	

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan approved with the following conditions for final closure report content; 1. Provide executive summary of work 2. Wetland & Karst maps 3. Topo map showing any well head protection areas within 1/2 mile from the release 4. Aerial map showing any significant watercourse within 1/2 mile of any horizontal boundary of the release 5. Clearly show horizontal delineation/confirmation samples for entire release perimeter 6. All confirmation samples must meet reclamation standards for 0-4 ft. below grade (chloride - 600 mg/kg, total TPH - 100 mg/kg, benzene - 10 mg/kg, total BTEX - 50 mg/kg) 7. Any/all field notes 8. Photos prior to backfilling showing; Title/Header, date/time of photo, orientation of photo (direction viewed), GIS data for any/all sample points, annotation or explanation to imagery content 9. Remedial activity documentation [e.g. confirmation sampling notification(s)] 10. Deadline to complete remediation and submit final report: 2/15/2023.	11/15/2022