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DELINEATION WORKPLAN

OXY – SOLOMON STATE COM #1H (Leak Date: 9/24/18)

RP # 2RP-5019

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5019.

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 rules, the following remediation is proposed:

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 (PURPLE shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP2 and SP4 (YELLOW shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP3 and SP5 (GREEN shade on diagram) will be excavated to a depth of 5 feet.

A confirmation sample at the bottom of SP3 will be taken and analyzed for all four constituents as per the spill rule.

Bottom confirmation samples will be collected at no greater than 50 ft. intervals. Estimated volume of material to be removed is 156 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.

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NMAP1829562807
District RP	2RP-5019
Facility ID	NMAP1829562550
Application ID	pMAP1829562293

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?	145 (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.

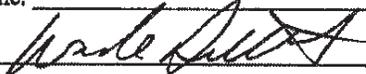
Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NMAP1829562807
District RP	2RP-5019
Facility ID	fMAP1829562550
Application ID	pMAP1829562293

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 Specialist
 Signature:  Date: 11-2-18
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 5

Incident ID	NMAP1828562807
District RP	2RP-5019
Facility ID	FMAP1828562550
Application ID	pMAP1828562293

Remediation Plan

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

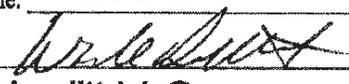
- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation 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 Specialist

Signature:  Date: 11-2-18

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: _____

Oxy, Solomon State Com #1H

Leak date: 9/24/18
Eddy County, NM
2RP-5019
NMAP1829562807

Legend

- 1 ft Excavation
- 2 ft Excavation
- 5 ft Excavation
- Leak Area (red outline)
- Sample points



Google Earth

© 2018 Google



70 ft

Oxy, Solomon State Com #1H

Sample points

SP1, N 32.67857 W-104.05750

SP2, N 32.67868 W-104.05754

SP3, N 32.67864 W-104.05748

SP4, N 32.67870 W-104.05747

SP5, N 32.67859 W-104.05742

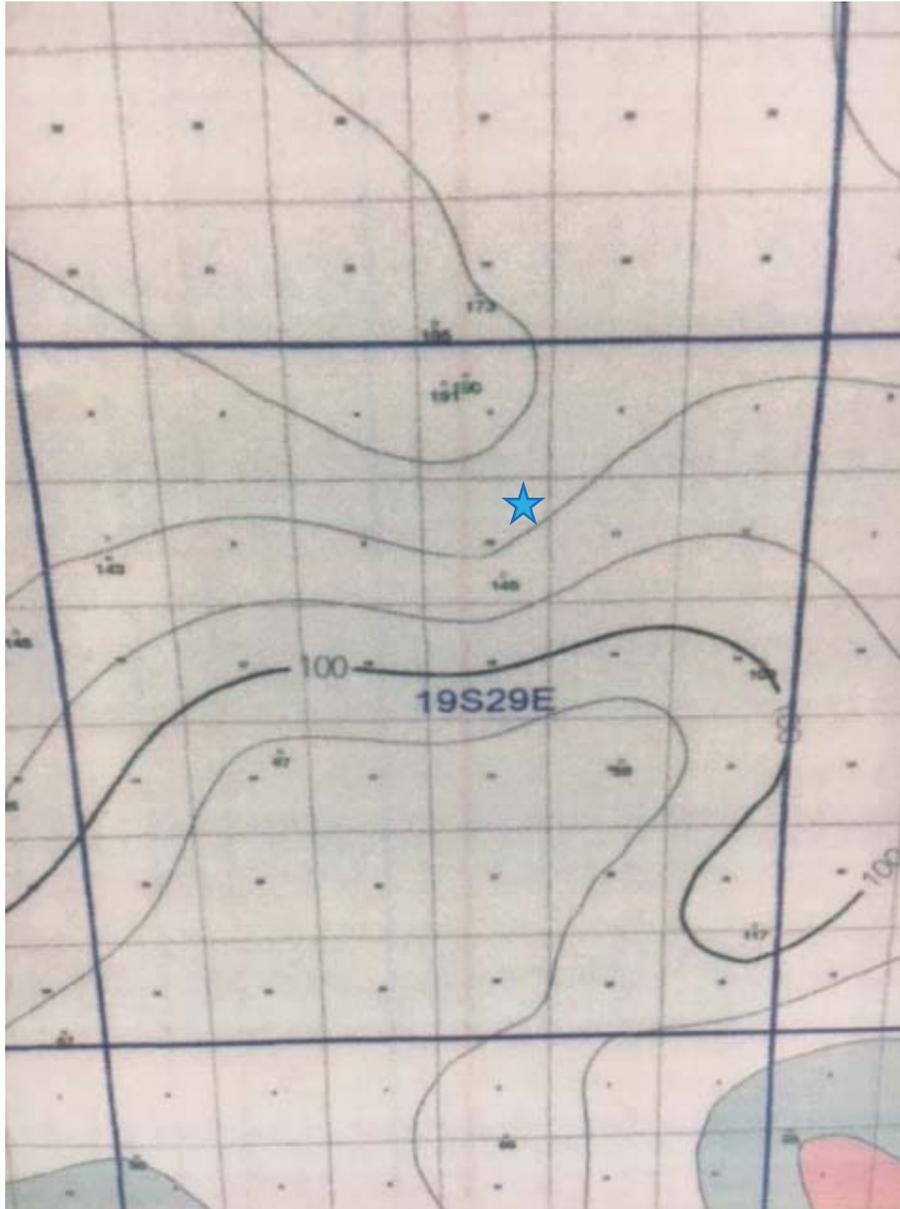
NORTH, N 32.67863 W-104.05752

SOUTH, N 32.67855 W-104.05744

EAST, N 32.67865 W-104.05741

WEST, N 32.67861 W-104.05754

Oxy, Solomon State Com 1H
U/L A, Section 10, T19S, R29E
Groundwater: 150'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 588479

Northing (Y): 3616274

Radius: 900

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



USGS Home
 Contact USGS
 Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Geographic Area:

Click to hide News Bulletins

- [Please see news on new formats](#)
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
 site_no list =

- 324019104033201

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

USGS 324019104033201 19S.29E.10.43211

Eddy County, New Mexico
 Latitude 32°40'19", Longitude 104°03'32" NAD27
 Land-surface elevation 3,371 feet above NAVD88
 The depth of the well is 153 feet below land surface.
 This well is completed in the Rustler Formation (312RSLR) 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 measurement
1965-12-09		D	147.59				2		U	
1968-04-03		D	145.99				2		U	
1971-02-01		D	145.84				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
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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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>

Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-10-16 11:26:55 EDT

46.19 0.43 nadww01

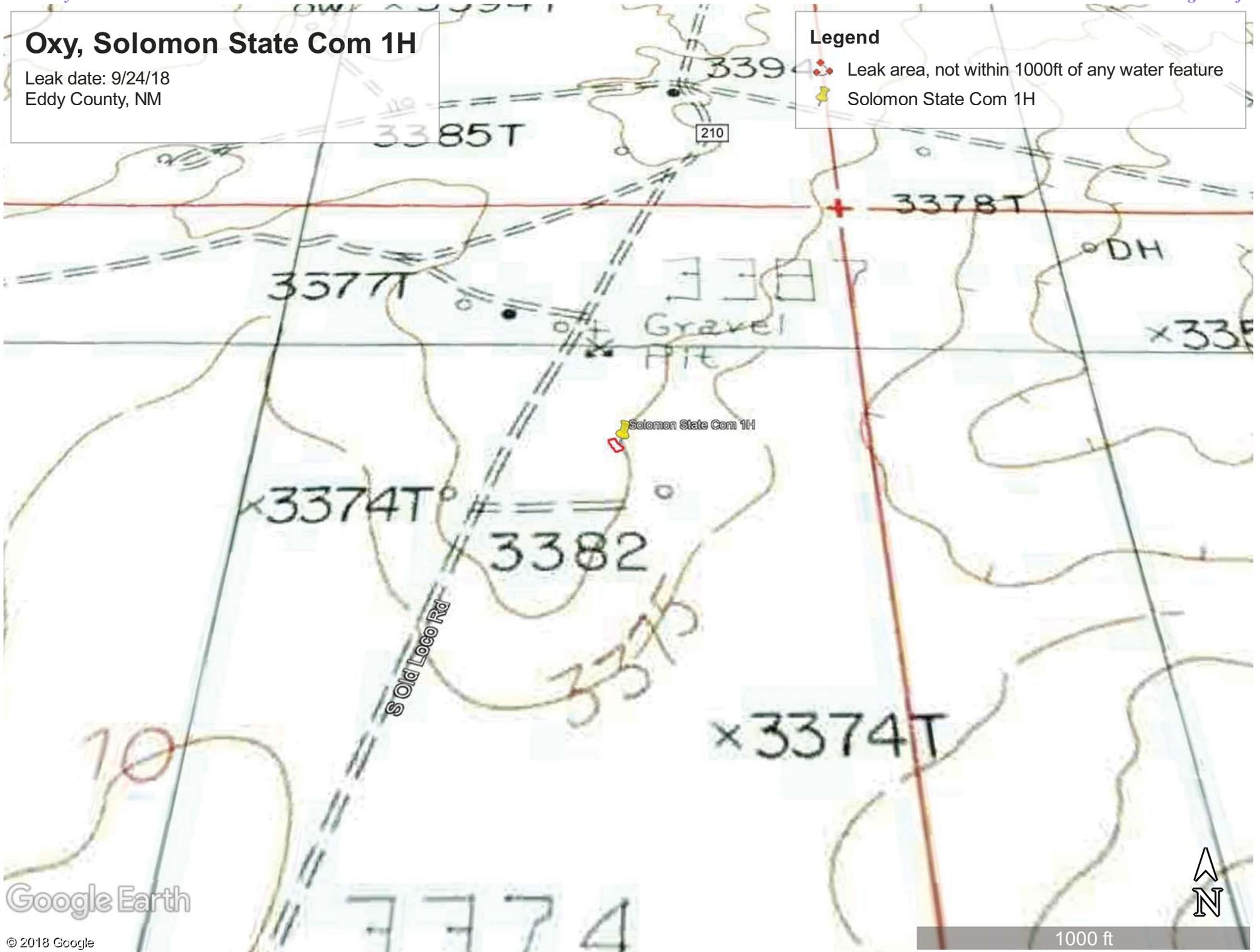


Oxy, Solomon State Com 1H

Leak date: 9/24/18
Eddy County, NM

Legend

-  Leak area, not within 1000ft of any water feature
-  Solomon State Com 1H



Oxy, Solomon State Com 1H

Leak date: 9/24/18
Eddy County, NM
2RP-5019
NMAP1829562807

BLM CAVE KARST MAP

Legend

-  High potential
-  Low potential
-  Medium potential
-  Solomon State Com 1H



Google Earth

© 2018 Google



1 mi

National Flood Hazard Layer FIRMette



32°40'58.28"N

104°3'45.40"W



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 D |
| OTHER AREAS | | Area of Minimal Flood Hazard Zone X |
| | | Effective LOMRs |
| | | Area of Undetermined Flood Hazard Zone D |
| GENERAL STRUCTURES | | 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 |
| MAP PANELS | | 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 **10/16/2018 at 11:30:02 AM** 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.

Laboratory Analytical Results Summary
Solomon State Com #1H (9/24/18)

Analyte	Method	Sample ID	SP1 @	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
			SURFACE	10/18/18	10/18/18	10/18/18
			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		80	640	80	80
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

Analyte	Method	Sample ID	SP2 @	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
			SURFACE	10/18/18	10/18/18	10/18/18
			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		64	768	112	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	12.1	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

Analyte	Method	Sample ID	SP3 @	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'	SP3 @ 6'	SP3 @ 7'	SP3 @ 8'
			SURFACE	10/18/18	10/18/18	10/19/18	10/19/18	10/19/18	10/19/18	10/19/18	10/19/18
			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	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		576	208	208	176	624	704	576	272	240
GRO	TPH 8015M		<10.0	<10.0	n/a						
DRO	TPH 8015M		<10.0	68.6	n/a						
EXT DRO	TPH 8015M		<10.0	<10.0	n/a						

Analyte	Method	Sample ID	SP4 @	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'
			SURFACE	10/19/18	10/19/18	10/19/18	10/19/18	10/19/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	0.128	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		80	96	192	112	240	256
GRO	TPH 8015M		<10.0	26.2	96.3	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	186	220	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a

Laboratory Analytical Results Summary
Solomon State Com #1H (9/24/18)

Analyte	Method	Sample ID	SP5 @	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'	SP5 @ 6'	SP5 @ 7'
			SURFACE	10/19/18	10/19/18	10/19/18	10/19/18	10/19/18	10/19/18	10/19/18
			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	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	0.57	0.443	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	0.57	0.443	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		80	224	80	64	48	32	16	16
GRO	TPH 8015M		<10.0	<10.0	205	180	26.6	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	22.2	449	488	233	33.3	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a

Analyte	Method	Sample ID	NORTH @	EAST @	WEST @	SOUTH @
			SURFACE	SURFACE	SURFACE	SURFACE
			10/19/18	10/19/18	10/19/18	10/19/18
			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		16	<16.0	<16.0	<16.0
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



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

October 26, 2018

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: SOLOMON STATE COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 10/22/18 15:50.

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,

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:	10/22/2018	Sampling Date:	10/18/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 1 @ SURFACE (H803031-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.8-142

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	10/25/2018	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	10/23/2018	ND	201	100	200	0.602		
DRO >C10-C28*	<10.0	10.0	10/23/2018	ND	193	96.7	200	0.656		
EXT DRO >C28-C36	<10.0	10.0	10/23/2018	ND						

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 86.9 % 37.6-147

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:	10/22/2018	Sampling Date:	10/18/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 1 @ 1' (H803031-02)

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	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	10/25/2018	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	10/23/2018	ND	201	100	200	0.602		
DRO >C10-C28*	<10.0	10.0	10/23/2018	ND	193	96.7	200	0.656		
EXT DRO >C28-C36	<10.0	10.0	10/23/2018	ND						

Surrogate: 1-Chlorooctane 88.2 % 41-142

Surrogate: 1-Chlorooctadecane 88.2 % 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:	10/22/2018	Sampling Date:	10/18/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 1 @ 2' (H803031-03)

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	10/25/2018	ND	416	104	400	0.00	

Sample ID: SP 1 @ 3' (H803031-04)

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	10/25/2018	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:	10/22/2018	Sampling Date:	10/18/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 2 @ SURFACE (H803031-05)

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	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.8-142

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	10/25/2018	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	10/23/2018	ND	201	100	200	0.602		
DRO >C10-C28*	<10.0	10.0	10/23/2018	ND	193	96.7	200	0.656		
EXT DRO >C28-C36	<10.0	10.0	10/23/2018	ND						

Surrogate: 1-Chlorooctane 91.0 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 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:	10/22/2018	Sampling Date:	10/18/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 2 @ 1' (H803031-06)

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	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	10/25/2018	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	10/23/2018	ND	201	100	200	0.602		
DRO >C10-C28*	12.1	10.0	10/23/2018	ND	193	96.7	200	0.656		
EXT DRO >C28-C36	<10.0	10.0	10/23/2018	ND						

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 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:	10/22/2018	Sampling Date:	10/18/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 2 @ 2' (H803031-07)

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	10/25/2018	ND	416	104	400	0.00	

Sample ID: SP 2 @ 3' (H803031-08)

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	10/25/2018	ND	416	104	400	0.00	

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Analytical Results For:

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

Received:	10/22/2018	Sampling Date:	10/18/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 3 @ SURFACE (H803031-09)

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	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	10/25/2018	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	10/23/2018	ND	201	100	200	0.602		
DRO >C10-C28*	<10.0	10.0	10/23/2018	ND	193	96.7	200	0.656		
EXT DRO >C28-C36	<10.0	10.0	10/23/2018	ND						

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 94.1 % 37.6-147

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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:	10/22/2018	Sampling Date:	10/18/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 3 @ 1' (H803031-10)

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	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/25/2018	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	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	68.6	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.0 % 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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 3 @ 2' (H803031-11)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/25/2018	ND	416	104	400	0.00		

Sample ID: SP 3 @ 3' (H803031-12)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/25/2018	ND	416	104	400	0.00		

Sample ID: SP 3 @ 4' (H803031-13)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	10/25/2018	ND	416	104	400	0.00		

Sample ID: SP 3 @ 5' (H803031-14)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	10/25/2018	ND	416	104	400	0.00		

Sample ID: SP 3 @ 6' (H803031-15)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	10/25/2018	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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 3 @ 7' (H803031-16)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/25/2018	ND	416	104	400	0.00	

Sample ID: SP 3 @ 8' (H803031-17)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/25/2018	ND	416	104	400	0.00	

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

Received:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 4 @ SURFACE (H803031-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.8-142

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	10/25/2018	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	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	<10.0	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 84.2 % 41-142

Surrogate: 1-Chlorooctadecane 78.8 % 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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 4 @ 1' (H803031-19)

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	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 142 % 69.8-142

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	10/25/2018	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*	26.2	10.0	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	186	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 88.2 % 41-142

Surrogate: 1-Chlorooctadecane 82.6 % 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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 4 @ 2' (H803031-20)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	0.128	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 182 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	10/25/2018	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*	96.3	10.0	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	220	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 91.3 % 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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 4 @ 3' (H803031-21)

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	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.8-142

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	10/25/2018	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	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	<10.0	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 83.3 % 37.6-147

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Analytical Results For:

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

Received:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 4 @ 4' (H803031-22)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/25/2018	ND	416	104	400	3.92	

Sample ID: SP 4 @ 5' (H803031-23)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/25/2018	ND	416	104	400	3.92	

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Received:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ SURFACE (H803031-24)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.8-142

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	10/25/2018	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	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	<10.0	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 84.2 % 41-142

Surrogate: 1-Chlorooctadecane 80.9 % 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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 1' (H803031-25)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.8-142

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	10/25/2018	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	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	22.2	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 88.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.6 % 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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 2' (H803031-26)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	0.570	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	0.570	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 153 % 69.8-142

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	10/25/2018	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*	205	10.0	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	449	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 118 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

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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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 3' (H803031-27)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	0.443	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	0.443	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 153 % 69.8-142

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	10/25/2018	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*	180	10.0	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	488	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 124 % 41-142

Surrogate: 1-Chlorooctadecane 91.6 % 37.6-147

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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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 4' (H803031-28)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 154 % 69.8-142

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	10/25/2018	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*	26.6	10.0	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	233	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 98.1 % 41-142

Surrogate: 1-Chlorooctadecane 91.8 % 37.6-147

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* = 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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 5' (H803031-29)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	2.00	99.8	2.00	1.59		
Toluene*	<0.050	0.050	10/24/2018	ND	1.92	96.0	2.00	2.18		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.94	96.8	2.00	1.44		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.67	94.5	6.00	1.26		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.8-142

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	10/25/2018	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	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	33.3	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 80.5 % 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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SP 5 @ 6' (H803031-30)

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	10/25/2018	ND	416	104	400	3.92	

Sample ID: SP 5 @ 7' (H803031-31)

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	10/25/2018	ND	416	104	400	3.92	

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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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: NORTH @ SURFACE (H803031-32)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	1.92	96.1	2.00	0.0867		
Toluene*	<0.050	0.050	10/24/2018	ND	1.82	91.1	2.00	0.499		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.81	90.7	2.00	0.346		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.45	90.9	6.00	0.00717		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.3 % 69.8-142

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	10/25/2018	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	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	<10.0	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 85.5 % 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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: EAST @ SURFACE (H803031-33)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	1.81	90.4	2.00	0.255		
Toluene*	<0.050	0.050	10/24/2018	ND	1.72	86.0	2.00	0.574		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.72	86.2	2.00	0.926		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.17	86.2	6.00	1.60		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 69.8-142

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	10/25/2018	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	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	<10.0	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: WEST @ SURFACE (H803031-34)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	1.81	90.4	2.00	0.255		
Toluene*	<0.050	0.050	10/24/2018	ND	1.72	86.0	2.00	0.574		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.72	86.2	2.00	0.926		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.17	86.2	6.00	1.60		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 69.8-142

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	10/25/2018	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	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	<10.0	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 95.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.8 % 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:	10/22/2018	Sampling Date:	10/19/2018
Reported:	10/26/2018	Sampling Type:	Soil
Project Name:	SOLOMON STATE COM #1H	Sampling Condition:	Cool & Intact
Project Number:	(9/24/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SOUTH @ SURFACE (H803031-35)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2018	ND	1.81	90.4	2.00	0.255		
Toluene*	<0.050	0.050	10/24/2018	ND	1.72	86.0	2.00	0.574		
Ethylbenzene*	<0.050	0.050	10/24/2018	ND	1.72	86.2	2.00	0.926		
Total Xylenes*	<0.150	0.150	10/24/2018	ND	5.17	86.2	6.00	1.60		
Total BTEX	<0.300	0.300	10/24/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 69.8-142

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	10/25/2018	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	10/24/2018	ND	208	104	200	0.472		
DRO >C10-C28*	<10.0	10.0	10/24/2018	ND	202	101	200	1.73		
EXT DRO >C28-C36	<10.0	10.0	10/24/2018	ND						

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 89.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 4

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																						
Project Manager: Cliff Brunson				P.O. #:																										
Address: P.O. Box 805				Company: <i>Oxy</i>																										
City: Hobbs		State: NM		Zip: 88241		Attn: <i>D. Smith</i>																								
Phone #: 575-397-6388				Fax #: 575-397-0397				Address:																						
Project #:				Project Owner: <i>Oxy</i>				City:																						
Project Name: Solomon State Com #1H (9/24/18)				State:				Zip:																						
Project Location: Eddy County, NM				Phone #:																										
Sampler Name: Jeff Ornelas				Fax #:																										
FOR LAB USE ONLY																														
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX				PRESERV.			SAMPLING																		
				(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
<i>H80303</i>																														
<i>1</i>	SP1 @ SURFACE	<i>G</i>	<i>1</i>				<input checked="" type="checkbox"/>							10/18/18	10:10 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>2</i>	SP1 @ 1'													10/18/18	10:30 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>3</i>	SP1 @ 2'													10/18/18	11:11 AM	<input checked="" type="checkbox"/>														
<i>4</i>	SP1 @ 3'													10/18/18	11:30 AM	<input checked="" type="checkbox"/>														
<i>5</i>	SP2 @ SURFACE													10/18/18	11:40 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>6</i>	SP2 @ 1'													10/18/18	11:55 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>7</i>	SP2 @ 2'													10/18/18	12:30 PM	<input checked="" type="checkbox"/>														
<i>8</i>	SP2 @ 3'													10/18/18	1:11 PM	<input checked="" type="checkbox"/>														
<i>9</i>	SP3 @ SURFACE													10/18/18	1:45 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>10</i>	SP3 @ 1'													10/18/18	2:39 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												

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Relinquished By: <i>Jeff Ornelas</i>		Date: <i>10/19/18</i>		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <i>5:30pm</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date: <i>10-22-18</i>		Received By: <i>Jamara Aldridge</i>		REMARKS:			
		Time: <i>15:50</i>							
Delivered By: (Circle One)		Sample Condition		CHECKED BY:					
Sampler - UPS - Bus - Other: <i>-3.4c #97</i>		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) <i>TO.</i>					

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Cliff Brunson				P.O. #:																									
Address: P.O. Box 805				Company: <i>Oxy Drifick</i>																									
City: Hobbs		State: NM		Zip: 88241		Attn:																							
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:		City:																							
Project #:		Project Owner: Oxy		State:		Zip:																							
Project Name: Solomon State Com #1H (9/24/18)				Phone #:																									
Project Location: Eddy County, NM				Fax #:																									
Sampler Name: Jeff Ornelas																													
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	CI	BTX	TPH EXT												
<i>H803031</i>																													
<i>21</i>		SP4 @ 3'		<input checked="" type="checkbox"/>	<input type="checkbox"/>	10/19/18	11:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<i>22</i>		SP4 @ 4'		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/19/18	12:01 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<i>23</i>		SP4 @ 5'		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/19/18	12:15 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
<i>24</i>		SP5 @ SURFACE		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/19/18	1:11 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>25</i>		SP5 @ 1'		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/19/18	1:15 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>26</i>		SP5 @ 2'		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/19/18	1:27 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>27</i>		SP5 @ 3'		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/19/18	1:40 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>28</i>		SP5 @ 4'		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/19/18	1:56 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>29</i>		SP5 @ 5'		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/19/18	2:15 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<i>30</i>		SP5 @ 6'		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10/19/18	2:22 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												

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Relinquished By: <i>Jeff Ornelas</i>		Date: <i>10/19/18</i>		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <i>5:30pm</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>[Signature]</i>		Date: <i>10-22-18</i>		Received By: <i>Jamara Oldaker</i>		REMARKS:			
		Time: <i>15:50</i>							
Delivered By: (Circle One)		Sample Condition		CHECKED BY:					
Sampler - UPS - Bus - Other: <i>-3.4c #97</i>		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) <i>TO</i>					

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

