

Closure Report

APPROVED

By Olivia Yu at 7:57 am, Mar 13, 2018

Site Description

NMOCD grants closure to 1RP-4694.

Site Name:	Pygmy 27 State #002H
Company:	COG Operating
Legal Description:	U/L C, Section 27, T21S, R33E
County:	Lea County, NM
GPS Coordinates:	N 32.45258° W-103.58161°

Release Data

Date of Release:	05/06/2017
Type of Release:	Produced water
Source of Release:	Flow line
Volume of Release:	1,000 bbls
Volume Recovered:	40 bbls

Remediation Specifications

Remediation Parameters:	EXCAVATE SP1 & SP2 TO 6"; SP3 & SP4 TO 12', w/ liner at 4'; SP5-SP8 TO 4' w/ liner; SP9 & SP10-no remediation; SP11-SP13 TO 6' w/ liner; SP14-SP20 TO 1'. Backfill with clean soil. ***SEE ATTACHED MAP FOR CLARIFICATION	
Remediation Activities:	11/27/2017 TO 01/12/2018	
Plan Sent to OCD:	09/14/2017	Email from Cliff Brunson to Olivia Yu
OCD Approval of Plan:	09/28/2017	Email from Olivia Yu to Cliff Brunson
Plan Sent to SLO:	09/14/2017	Email from Cliff Brunson to Amber Groves
BLM Approval of Plan:	10/15/2017	Email from Amber Groves to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 05/09/2017
Final C-141	Signed 01/22/2018
Site Diagram	May 2017
Groundwater Plot	175'
TOPO Maps	April 2017
Lab Summary	5/30/17-6/1/17, 6/8/17-6/11/17, 8/17/17-8/18/17, & 1/3/18-1/8/18
Lab Analysis	5/30/17-6/1/17, 6/8/17-6/11/17, 8/17/17-8/18/17, & 1/3/18-1/8/18
Correspondence	Request and approval of remediation plan via email

Request for Closure

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

Cliff Brunson, President, BBC International Inc.

01/24/2018

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: COG Operating LLC OGRID # 229137	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-683-7443
Facility Name: Pygmy 27 State #002H	Facility Type: Flowline
Surface Owner: State & Private	Mineral Owner:
	API No. 30-025-42062

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	28	21S	33E	190	North	1980	West	Lea

Latitude 32.452631 Longitude -103.581967

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 1,000 bbls	Volume Recovered: 40 bbls
Source of Release: Flowline	Date and Hour of Occurrence: May 6, 2017 9:00 am	Date and Hour of Discovery: May 6, 2017 9:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Ms. Yu - NMOCD / Ms. Groves - SLO	
By Whom? Dakota Neel	Date and Hour: May 6, 2017 9:34 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED

By Olivia Yu at 10:14 am, May 10, 2017

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The release was due to a damaged flowline. It appears that a vehicle ran over the line. The old flowline was repaired.

Describe Area Affected and Cleanup Action Taken.*

The release was within a pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

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

Signature: <i>Rebecca Haskell</i>	OIL CONSERVATION DIVISION	
Printed Name: Rebecca Haskell	<i>oy</i>	
Title: Senior HSE Coordinator	Approved by Environmental Specialist:	
E-mail Address: rhaskell@concho.com	Approval Date: 5/10/2017	Expiration Date:
Date: May 9, 2017 Phone: 432-683-7443	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>

* Attach Additional Sheets If Necessary

1RP-4694

nOY1713037518

pOY1713039747

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/9/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1R-4694 has been assigned. **Please refer to this case number in all future correspondence.**

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 6/10/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

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

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

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

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

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

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

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

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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Energy Minerals and Natural Resources

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OPERATOR

Initial Report Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland, TX 79701	Telephone No. 432-683-7443
Facility Name: Pygmy 27 State #002H	Facility Type: Flow line
Surface Owner: State & Private	Mineral Owner:
API No. 30-025-42062	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	27	21S	33E	190	North	1980	West	Lea County, NM

Latitude N 32.45258° Longitude W 103.58161°

NATURE OF RELEASE

Type of Release: Produced water	Volume of Release: 1,000 bbls	Volume Recovered: 40 bbls
Source of Release: Flow line	Date and Hour of Occurrence 05/06/2017 @ 9:00 am	Date and Hour of Discovery 05/06/2017 @ 9:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu, NMOCD; Amber Groves, SLO	
By Whom? Dakota Neal, COG Operating	Date and Hour: 05/06/2017 @ 9:34 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

APPROVED
By Olivia Yu at 7:55 am, Mar 13, 2018

Describe Cause of Problem and Remedial Action Taken.*

The release was due to a damaged flow line. It appears that a vehicle ran over the line. The old flow line was repaired.

Describe Area Affected and Cleanup Action Taken.*

This release occurred in the pasture and on a lease road. Vacuum trucks were dispatched to recover standing fluids. The site was delineated according to OCD standards and a remediation plan was created. Remediation was completed in accordance with the remediation plan approved by Olivia Yu of NMOCD via email on 09/28/2017.

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

Signature: <i>Becky Haskell</i>	OIL CONSERVATION DIVISION	
Printed Name: Becky Haskell	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Senior HSE Coordinator	Approval Date: 3/13/2018	Expiration Date: xx/xx/xxxx
E-mail Address: rhaskell@concho.com	Conditions of Approval:	
Date: <i>January 22, 2018</i> Phone: (432) 683-7443	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

1RP-4694

COG, Pygmy 27 State #002H

Leak date: 05/06/2017
Lea County, NM
API# 30-025-42062
1RP-4694

Legend

- 1' Excavation
- 12' Excavation with liner
- Leak area (yellow)
- 4' Excavation with liner
- 6' Excavation with liner
- 6" Excavation
- Cardinal sample points
- Confirmation sample points
- Remediation activities unnecessary
- Sample points



COG, Pygmy 27 State #002H

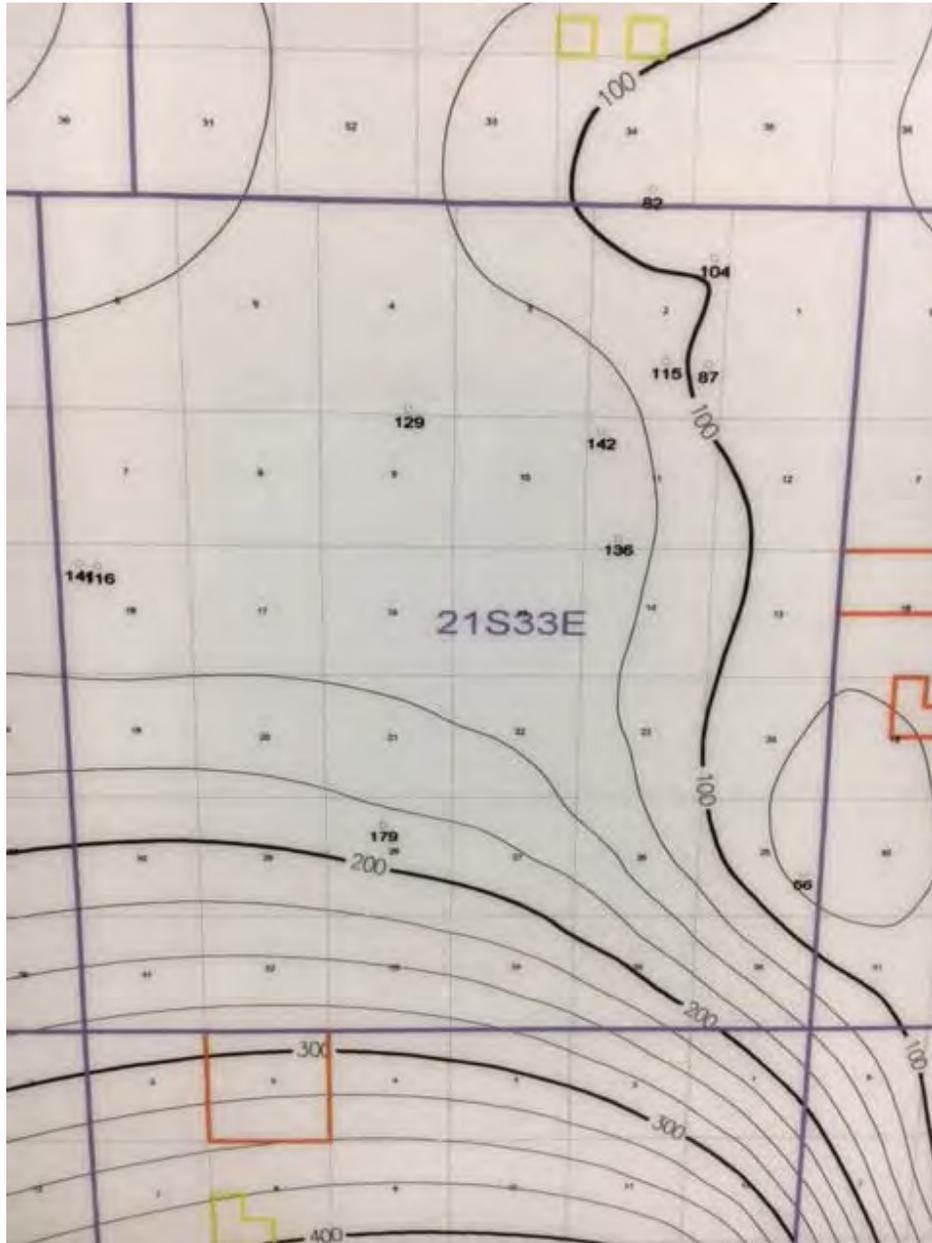
Sample points, hand auger

SP1, N 32.45284 W-103.58088
SP2, N 32.45270 W-103.58078
SP3, N 32.45276 W-103.58097
SP4, N 32.45269 W-103.58111
SP5, N 32.45288 W-103.58132
SP6, N 32.45271 W-103.58128
SP7, N 32.45274 W-103.58151
SP8, N 32.45268 W-103.58179
SP9, N 32.45276 W-103.58195
SP10, N 32.45288 W-103.58212
SP11, N 32.45264 W-103.58209
SP12, N 32.45258 W-103.58226
SP13, N 32.45248 W-103.58206
SP14, N 32.45227 W-103.58175
SP15, N 32.45212 W-103.58140
SP16, N 32.45196 W-103.58102
SP17, N 32.45190 W-103.58078
SP18, N 32.45184 W-103.58059
NORTH, N 32.45301 W-103.58206
SOUTH, N 32.45181 W-103.58053
EAST, N 32.45272 W-103.58063
WEST, N 32.45250 W-103.58246

Confirmation sample points, hand auger

1-SW, N 32.45264 W-103.58122
2-SW, N 32.45275 W-103.58120
3-SW, N 32.45280 W-103.58138
4-SW, N 32.45269 W-103.58147
5-SW, N 32.45278 W-103.58171
6-SW, N 32.45270 W-103.58192
7-SW, N 32.45269 W-103.58212
8-SW, N 32.45253 W-103.58183
9-SW, N 32.45242 W-103.58206
10-SW, N 32.45246 W-103.58223
11-SW, N 32.45262 W-103.58229
12-B, N 32.45220 W-103.58163
13-SW, N 32.45217 W-103.58164
14-B, N 32.45203 W-103.58122
15-SW, N 32.45200 W-103.58124
16-B, N 32.45215 W-103.58137
17-SW, N 32.45217 W-103.58135
18-B, N 32.45193 W-103.58085
19-SW, N 32.45196 W-103.58084

COG, Pygmy 27 State #002H
U/L C, Section 27, T21S, R33E
Groundwater: 175'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01349 POD1		CP	LE	2	3	1	27	21S	33E	635304	3591576	<input type="checkbox"/>	302	1188	572 616
CP 01357 POD1		CP	LE	4	3	1	27	21S	33E	634782	3591347	<input type="checkbox"/>	566	1286	578 708
CP 01355 POD1		CP	LE	2	1	3	27	21S	33E	634773	3591061	<input type="checkbox"/>	820	1192	582 610
CP 01411 POD2		CP	LE		1	2	34	21S	33E	635534	3590380	<input type="checkbox"/>	1490	1125	
CP 00601 POD1		CP	LE		2	1	28	21S	33E	633502	3591791*	<input type="checkbox"/>	1609	223	
CP 01411 POD1		CP	LE		2	2	34	21S	33E	635968	3590386	<input type="checkbox"/>	1661	1149	

Average Depth to Water: **577 feet**

Minimum Depth: **572 feet**

Maximum Depth: **582 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 635111

Northing (Y): 3591809

Radius: 1700

*UTM location was derived from PLSS - see Help

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.

5/15/17 9:53 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Public Land Survey System (PLSS)

Q64: Q16: Q4: Sec: Tws: Rng:

State Plane Coordinate System - NAD27

X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

X: ft Y: ft Zone:

Degrees/Minutes/Seconds

Longitude (X): Degrees: ° Minutes: ' Seconds: "

Latitude (Y): Degrees: ° Minutes: ' Seconds: "

UTM - NAD27

Easting (X): mtrs Northing (Y): mtrs Zone:

SUBMIT

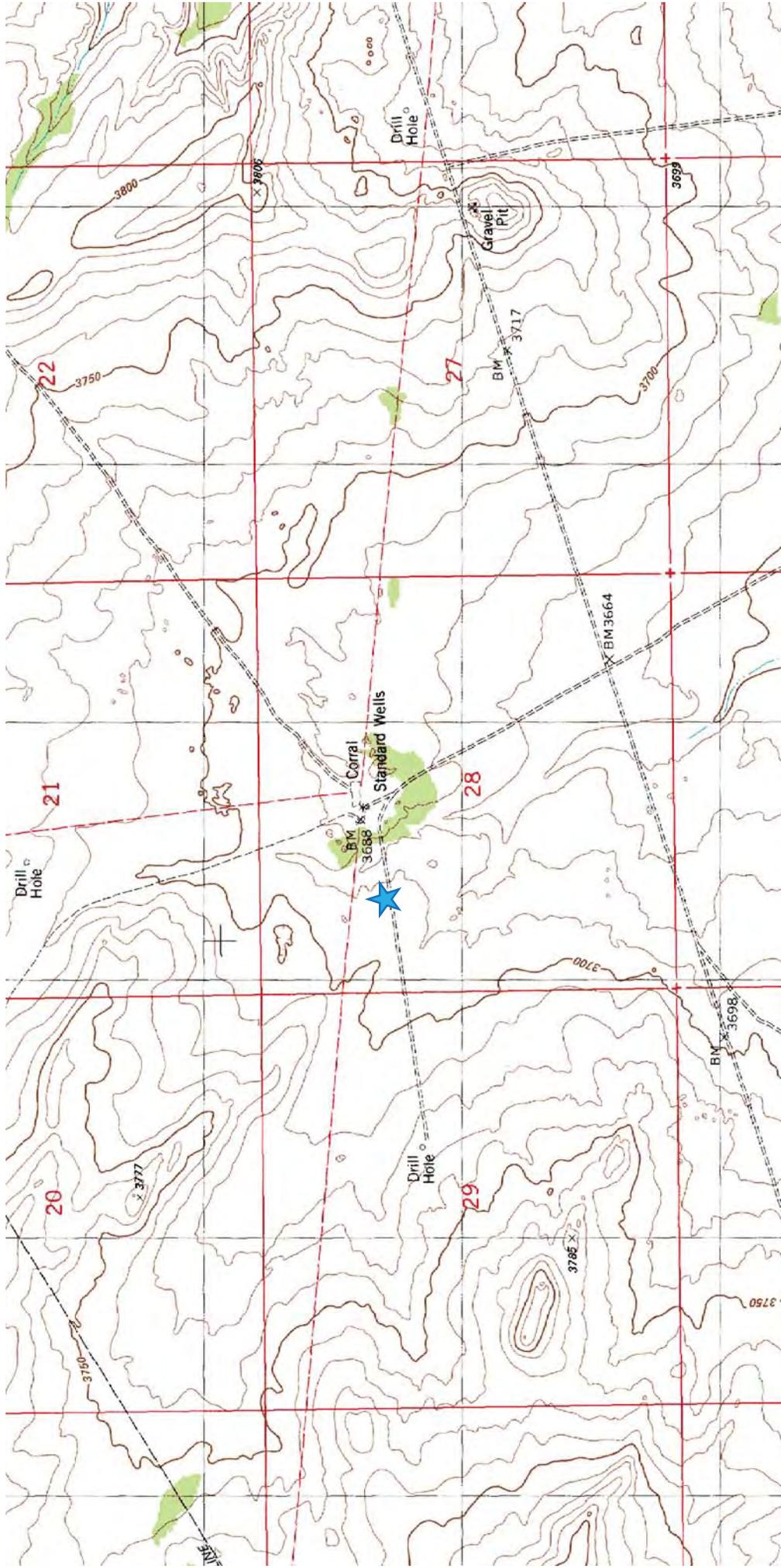
All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X): mtrs Northing (Y): mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

COG

Pygmy 27 State #002H



Laboratory Analytical Results Summary
Pygmy 27 State #002H

Analyte	Method	Sample Date	SP1 @ 1'	SP1 @ 6'	SP1 @ 10'
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		48	160	240
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

Analyte	Method	Sample Date	SP2 @ 1'	SP2 @ 6'	SP2 @ 10'
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		64	160	144
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

Analyte	Method	Sample Date	SP3 @ 1'	SP3 @ 3'	SP3 @ 6'	SP3 @ 8'	SP3 @ 10'	SP3 @ 12'	SP3 @ 14'	SP3 @ 19'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		3960	5520	15800	4560	8660	6000	96	96
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP4 @ 1'	SP4 @ 3'	SP4 @ 6'	SP4 @ 8'	SP4 @ 10'	SP4 @ 12'	SP4 @ 14'	SP4 @ 19'	SP4 @ 20'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		4400	8400	6880	7360	8660	10400	1760	96	80
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP5 @ 1'	SP5 @ 3'	SP5 @ 6'	SP5 @ 8'	SP5 @ 10'	SP5 @ 15'	SP5 @ 18'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		3840	6400	5440	4960	128	96	112
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	14.3	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP6 @ 1'	SP6 @ 3'	SP6 @ 6'	SP6 @ 8'	SP6 @ 10'	SP6 @ 11'	SP6 @ 16'	SP6 @ 18'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		7360	5600	7200	3200	496	112	80	64
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP7 @ 1'	SP7 @ 3'	SP7 @ 6'	SP7 @ 8'	SP7 @ 10'	SP7 @ 15'	SP7 @ 18'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		320	4800	12100	560	160	208	80
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP8 @ 1'	SP8 @ 3'	SP8 @ 6'	SP8 @ 8'	SP8 @ 9'	SP8 @ 14'	SP8 @ 18'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		416	13400	5200	640	<16.0	32	32
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary
Pygmy 27 State #002H

Analyte	Method	Sample	SP9 @ SURFACE
		Date	6/1/17
			mg/Kg
Benzene	BTEX 8021B		n/a
Toluene	BTEX 8021B		n/a
Ethylbenzene	BTEX 8021B		n/a
Total Xylenes	BTEX 8021B		n/a
Total BTEX	BTEX 8021B		n/a
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		n/a
DRO	TPH 8015M		n/a
EXT DRO	TPH 8015M		n/a

Analyte	Method	Sample	SP10 @ SURFACE
		Date	6/1/17
			mg/Kg
Benzene	BTEX 8021B		n/a
Toluene	BTEX 8021B		n/a
Ethylbenzene	BTEX 8021B		n/a
Total Xylenes	BTEX 8021B		n/a
Total BTEX	BTEX 8021B		n/a
Chloride	SM4500Cl-B		16
GRO	TPH 8015M		n/a
DRO	TPH 8015M		n/a
EXT DRO	TPH 8015M		n/a

Analyte	Method	Sample	SP11 @ 1'	SP11 @ 3'	SP11 @ 6'	SP11 @ 8'	SP11 @ 9'	SP11 @ 10'	SP11 @ 15'	SP11 @ 17'	SP11 @ 18'	SP11 @ 19'	SP11 @ 22'
		Date	6/1/17	6/1/17	6/1/17	6/8/17	6/8/17	6/8/17	6/8/17	6/8/17	8/17/17	8/17/17	8/17/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		688	9060	10700	7040	208	192	288	704	352	128	80
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample	SP12 @ 1'	SP12 @ 3'	SP12 @ 5'	SP12 @ 7'	SP12 @ 9'	SP12 @ 11'	SP12 @ 16'
		Date	6/8/17	6/8/17	6/8/17	6/8/17	8/17/17	8/17/17	8/17/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1420	7760	12700	8660	528	48	80
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample	SP13 @ 1'	SP13 @ 3'	SP13 @ 5'	SP13 @ 7'	SP13 @ 9'	SP13 @ 10'	SP13 @ 15'
		Date	6/8/17	6/8/17	6/8/17	6/8/17	8/17/17	8/17/17	8/17/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		2160	11800	12300	2560	2960	176	128
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample	SP14 @ 1'	SP14 @ 6'	SP14 @ 7'	SP14 @ 9'	SP14 @ 10'	SP14 @ 15'
		Date	6/8/17	6/8/17	6/8/17	8/18/17	8/18/17	8/18/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		160	128	592	528	48	64
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample	SP15 @ 1'	SP15 @ 2'	SP15 @ 7'	SP15 @ 8'	SP15 @ 13'
		Date	6/9/17	6/9/17	6/9/17	8/18/17	8/18/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1440	112	544	112	128
GRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample	SP16 @ 1'	SP16 @ 2'	SP16 @ 7'
		Date	6/9/17	6/9/17	6/9/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		1380	16	144
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a

Laboratory Analytical Results Summary
Pygmy 27 State #002H

Analyte	Method	Sample Date	SP17 @ 1'	SP17 @ 2'	SP17 @ 7'
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B	6/9/17	<0.050	n/a	n/a
Toluene	BTEX 8021B	6/9/17	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B	6/9/17	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B	6/9/17	<0.150	n/a	n/a
Total BTEX	BTEX 8021B	6/9/17	<0.300	n/a	n/a
Chloride	SM4500Cl-B	6/9/17	2240	160	208
GRO	TPH 8015M	6/9/17	<10.0	n/a	n/a
DRO	TPH 8015M	6/9/17	<10.0	n/a	n/a
EXT DRO	TPH 8015M	6/9/17	<10.0	n/a	n/a

Analyte	Method	Sample Date	SP18 @ 1'	SP18 @ 2'	SP18 @ 7'	SP18 @ 8'	SP18 @ 9'	SP18 @ 14'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B	6/9/17	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B	6/9/17	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B	6/9/17	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B	6/9/17	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B	6/9/17	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B	6/9/17	1420	144	512	240	144	128
GRO	TPH 8015M	6/9/17	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M	6/9/17	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M	6/9/17	n/a	n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP19 @ 1'	SP19 @ 2'	SP19 @ 7'
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B	6/9/17	<0.050	n/a	n/a
Toluene	BTEX 8021B	6/9/17	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B	6/9/17	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B	6/9/17	<0.150	n/a	n/a
Total BTEX	BTEX 8021B	6/9/17	<0.300	n/a	n/a
Chloride	SM4500Cl-B	6/9/17	1760	160	144
GRO	TPH 8015M	6/9/17	<10.0	n/a	n/a
DRO	TPH 8015M	6/9/17	<10.0	n/a	n/a
EXT DRO	TPH 8015M	6/9/17	<10.0	n/a	n/a

Analyte	Method	Sample Date	SP20 @ 1'	SP20 @ 2'	SP20 @ 7'	SP20 @ 8'	SP20 @ 13'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B	6/11/17	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B	6/11/17	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B	6/11/17	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B	6/11/17	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B	6/11/17	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B	6/11/17	1380	80	432	192	176
GRO	TPH 8015M	6/11/17	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M	6/11/17	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M	6/11/17	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	North Sample
			mg/Kg
Benzene	BTEX 8021B	6/11/17	n/a
Toluene	BTEX 8021B	6/11/17	n/a
Ethylbenzene	BTEX 8021B	6/11/17	n/a
Total Xylenes	BTEX 8021B	6/11/17	n/a
Total BTEX	BTEX 8021B	6/11/17	n/a
Chloride	SM4500Cl-B	6/11/17	400
GRO	TPH 8015M	6/11/17	n/a
DRO	TPH 8015M	6/11/17	n/a
EXT DRO	TPH 8015M	6/11/17	n/a

Analyte	Method	Sample Date	South Sample
			mg/Kg
Benzene	BTEX 8021B	6/11/17	n/a
Toluene	BTEX 8021B	6/11/17	n/a
Ethylbenzene	BTEX 8021B	6/11/17	n/a
Total Xylenes	BTEX 8021B	6/11/17	n/a
Total BTEX	BTEX 8021B	6/11/17	n/a
Chloride	SM4500Cl-B	6/11/17	400
GRO	TPH 8015M	6/11/17	n/a
DRO	TPH 8015M	6/11/17	n/a
EXT DRO	TPH 8015M	6/11/17	n/a

Analyte	Method	Sample Date	East Sample
			mg/Kg
Benzene	BTEX 8021B	6/11/17	n/a
Toluene	BTEX 8021B	6/11/17	n/a
Ethylbenzene	BTEX 8021B	6/11/17	n/a
Total Xylenes	BTEX 8021B	6/11/17	n/a
Total BTEX	BTEX 8021B	6/11/17	n/a
Chloride	SM4500Cl-B	6/11/17	512
GRO	TPH 8015M	6/11/17	n/a
DRO	TPH 8015M	6/11/17	n/a
EXT DRO	TPH 8015M	6/11/17	n/a

Analyte	Method	Sample Date	West Sample
			mg/Kg
Benzene	BTEX 8021B	6/11/17	n/a
Toluene	BTEX 8021B	6/11/17	n/a
Ethylbenzene	BTEX 8021B	6/11/17	n/a
Total Xylenes	BTEX 8021B	6/11/17	n/a
Total BTEX	BTEX 8021B	6/11/17	n/a
Chloride	SM4500Cl-B	6/11/17	304
GRO	TPH 8015M	6/11/17	n/a
DRO	TPH 8015M	6/11/17	n/a
EXT DRO	TPH 8015M	6/11/17	n/a

Laboratory Analytical Results Summary
 Pygmy 27 State #002H

		Sample ID	1-Sidewall
Analyte	Method	Date	1/5/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	2-Sidewall
Analyte	Method	Date	1/5/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	3-Sidewall
Analyte	Method	Date	1/5/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	4-Sidewall
Analyte	Method	Date	1/5/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	5-Sidewall
Analyte	Method	Date	1/5/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	6-Sidewall
Analyte	Method	Date	1/8/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	7-Sidewall
Analyte	Method	Date	1/8/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	8-Sidewall
Analyte	Method	Date	1/8/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	9-Sidewall
Analyte	Method	Date	1/8/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	10-Sidewall
Analyte	Method	Date	1/8/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	11-Sidewall
Analyte	Method	Date	1/8/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	12-Bottom
Analyte	Method	Date	1/3/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	13-Sidewall
Analyte	Method	Date	1/3/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	14-Bottom
Analyte	Method	Date	1/3/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	15-Sidewall
Analyte	Method	Date	1/3/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	16-Bottom
Analyte	Method	Date	1/3/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	17-Sidewall
Analyte	Method	Date	1/3/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	18-Bottom
Analyte	Method	Date	1/3/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

		Sample ID	19-Sidewall
Analyte	Method	Date	1/3/18
			mg/kg
Chloride	SM4500Cl-B		<16.0

June 13, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PYGMY 27 STATE #002H

Enclosed are the results of analyses for samples received by the laboratory on 06/07/17 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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

Analytical Results For:

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

Received:	06/07/2017	Sampling Date:	05/30/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H701490-01)

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	06/09/2017	ND	1.97	98.7	2.00	0.663	
Toluene*	<0.050	0.050	06/09/2017	ND	1.97	98.5	2.00	0.305	
Ethylbenzene*	<0.050	0.050	06/09/2017	ND	2.12	106	2.00	0.756	
Total Xylenes*	<0.150	0.150	06/09/2017	ND	5.75	95.9	6.00	0.766	
Total BTEX	<0.300	0.300	06/09/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

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	06/08/2017	ND	464	116	400	14.8	

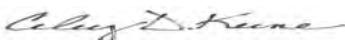
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2017	ND	218	109	200	5.54	
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	237	119	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	06/09/2017	ND					

Surrogate: 1-Chlorooctane 98.2 % 28.3-164
Surrogate: 1-Chlorooctadecane 103 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/07/2017	Sampling Date:	05/30/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 6' (H701490-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/08/2017	ND	464	116	400	14.8	

Sample ID: SP 1 @ 10' (H701490-03)

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	06/08/2017	ND	464	116	400	14.8	

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	06/07/2017	Sampling Date:	05/30/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H701490-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2017	ND	1.97	98.7	2.00	0.663		
Toluene*	<0.050	0.050	06/09/2017	ND	1.97	98.5	2.00	0.305		
Ethylbenzene*	<0.050	0.050	06/09/2017	ND	2.12	106	2.00	0.756		
Total Xylenes*	<0.150	0.150	06/09/2017	ND	5.75	95.9	6.00	0.766		
Total BTEX	<0.300	0.300	06/09/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/08/2017	ND	464	116	400	14.8		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/09/2017	ND	218	109	200	5.54		
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	237	119	200	6.66		
EXT DRO >C28-C36	<10.0	10.0	06/09/2017	ND						

Surrogate: 1-Chlorooctane 101 % 28.3-164

Surrogate: 1-Chlorooctadecane 103 % 34.7-157

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Received:	06/07/2017	Sampling Date:	05/30/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 6' (H701490-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/08/2017	ND	464	116	400	14.8	

Sample ID: SP 2 @ 10' (H701490-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/08/2017	ND	464	116	400	14.8	

Sample ID: SP 3 @ 1' (H701490-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	06/08/2017	ND	464	116	400	14.8	

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Received:	06/07/2017	Sampling Date:	05/30/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 3' (H701490-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2017	ND	1.97	98.7	2.00	0.663	
Toluene*	<0.050	0.050	06/09/2017	ND	1.97	98.5	2.00	0.305	
Ethylbenzene*	<0.050	0.050	06/09/2017	ND	2.12	106	2.00	0.756	
Total Xylenes*	<0.150	0.150	06/09/2017	ND	5.75	95.9	6.00	0.766	
Total BTEX	<0.300	0.300	06/09/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	06/08/2017	ND	464	116	400	14.8	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2017	ND	218	109	200	5.54	
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	237	119	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	06/09/2017	ND					

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 103 % 34.7-157

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Received:	06/07/2017	Sampling Date:	05/30/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 6' (H701490-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15800	16.0	06/08/2017	ND	464	116	400	14.8		

Sample ID: SP 3 @ 8' (H701490-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	06/08/2017	ND	432	108	400	3.64	QM-07	

Sample ID: SP 3 @ 10' (H701490-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	06/08/2017	ND	432	108	400	3.64		

Sample ID: SP 4 @ 1' (H701490-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	06/08/2017	ND	432	108	400	3.64		

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Received:	06/07/2017	Sampling Date:	05/30/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ 3' (H701490-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2017	ND	1.97	98.7	2.00	0.663		
Toluene*	<0.050	0.050	06/09/2017	ND	1.97	98.5	2.00	0.305		
Ethylbenzene*	<0.050	0.050	06/09/2017	ND	2.12	106	2.00	0.756		
Total Xylenes*	<0.150	0.150	06/09/2017	ND	5.75	95.9	6.00	0.766		
Total BTEX	<0.300	0.300	06/09/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	06/09/2017	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/09/2017	ND	218	109	200	5.54		
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	237	119	200	6.66		
EXT DRO >C28-C36	<10.0	10.0	06/09/2017	ND						

Surrogate: 1-Chlorooctane 99.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	06/07/2017	Sampling Date:	05/30/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 4 @ 6' (H701490-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	06/09/2017	ND	432	108	400	3.64	

Sample ID: SP 4 @ 8' (H701490-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	06/09/2017	ND	432	108	400	3.64	

Sample ID: SP 4 @ 10' (H701490-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	06/09/2017	ND	432	108	400	3.64	

Sample ID: SP 5 @ 1' (H701490-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	06/09/2017	ND	432	108	400	3.64	

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Received:	06/07/2017	Sampling Date:	05/31/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 5 @ 3' (H701490-18)

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	06/09/2017	ND	1.97	98.7	2.00	0.663	
Toluene*	<0.050	0.050	06/09/2017	ND	1.97	98.5	2.00	0.305	
Ethylbenzene*	<0.050	0.050	06/09/2017	ND	2.12	106	2.00	0.756	
Total Xylenes*	<0.150	0.150	06/09/2017	ND	5.75	95.9	6.00	0.766	
Total BTEX	<0.300	0.300	06/09/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	06/09/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2017	ND	218	109	200	5.54	
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	237	119	200	6.66	
EXT DRO >C28-C36	14.3	10.0	06/09/2017	ND					

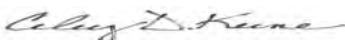
Surrogate: 1-Chlorooctane 99.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.2 % 34.7-157

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 Fax To: (575) 397-0397

Received:	06/07/2017	Sampling Date:	05/31/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 5 @ 6' (H701490-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	06/09/2017	ND	432	108	400	3.64	

Sample ID: SP 5 @ 8' (H701490-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	06/09/2017	ND	432	108	400	3.64	

Sample ID: SP 5 @ 10' (H701490-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/09/2017	ND	432	108	400	3.64	

Sample ID: SP 5 @ 15' (H701490-22)

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	06/09/2017	ND	432	108	400	3.64	

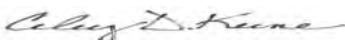
Sample ID: SP 5 @ 18' (H701490-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/09/2017	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/07/2017	Sampling Date:	05/31/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 6 @ 1' (H701490-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	06/09/2017	ND	432	108	400	3.64	

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Received:	06/07/2017	Sampling Date:	05/31/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 6 @ 3' (H701490-25)

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	06/09/2017	ND	1.97	98.7	2.00	0.663		
Toluene*	<0.050	0.050	06/09/2017	ND	1.97	98.5	2.00	0.305		
Ethylbenzene*	<0.050	0.050	06/09/2017	ND	2.12	106	2.00	0.756		
Total Xylenes*	<0.150	0.150	06/09/2017	ND	5.75	95.9	6.00	0.766		
Total BTEX	<0.300	0.300	06/09/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	06/09/2017	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/09/2017	ND	218	109	200	5.54		
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	237	119	200	6.66		
EXT DRO >C28-C36	<10.0	10.0	06/09/2017	ND						

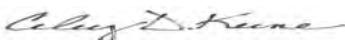
Surrogate: 1-Chlorooctane 94.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.5 % 34.7-157

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

Received:	06/07/2017	Sampling Date:	05/31/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 6 @ 6' (H701490-26)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	06/09/2017	ND	432	108	400	3.64	

Sample ID: SP 6 @ 8' (H701490-27)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	06/09/2017	ND	432	108	400	3.64	

Sample ID: SP 6 @ 10' (H701490-28)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/09/2017	ND	432	108	400	3.64	

Sample ID: SP 6 @ 11' (H701490-29)

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	06/09/2017	ND	432	108	400	3.64	

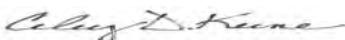
Sample ID: SP 6 @ 16' (H701490-30)

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	06/09/2017	ND	448	112	400	3.64	

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

Received:	06/07/2017	Sampling Date:	05/31/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 6 @ 18' (H701490-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/09/2017	ND	448	112	400	3.64	

Sample ID: SP 7 @ 1' (H701490-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/09/2017	ND	448	112	400	3.64	

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Received:	06/07/2017	Sampling Date:	06/01/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 7 @ 3' (H701490-33)

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	06/09/2017	ND	1.97	98.7	2.00	0.663		
Toluene*	<0.050	0.050	06/09/2017	ND	1.97	98.5	2.00	0.305		
Ethylbenzene*	<0.050	0.050	06/09/2017	ND	2.12	106	2.00	0.756		
Total Xylenes*	<0.150	0.150	06/09/2017	ND	5.75	95.9	6.00	0.766		
Total BTEX	<0.300	0.300	06/09/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	06/09/2017	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/09/2017	ND	218	109	200	5.54		
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	237	119	200	6.66		
EXT DRO >C28-C36	<10.0	10.0	06/09/2017	ND						

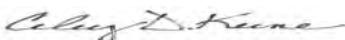
Surrogate: 1-Chlorooctane 97.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.6 % 34.7-157

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

Received:	06/07/2017	Sampling Date:	06/01/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 7 @ 6' (H701490-34)

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	06/09/2017	ND	448	112	400	3.64	

Sample ID: SP 7 @ 8' (H701490-35)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	06/09/2017	ND	448	112	400	3.64	

Sample ID: SP 7 @ 10' (H701490-36)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/09/2017	ND	448	112	400	3.64	

Sample ID: SP 7 @ 15' (H701490-37)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/09/2017	ND	448	112	400	3.64	

Sample ID: SP 7 @ 18' (H701490-38)

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	06/09/2017	ND	448	112	400	3.64	

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 Fax To: (575) 397-0397

Received:	06/07/2017	Sampling Date:	06/01/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 8 @ 1' (H701490-39)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/09/2017	ND	448	112	400	3.64	

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Received:	06/07/2017	Sampling Date:	06/01/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 8 @ 3' (H701490-40)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2017	ND	1.97	98.7	2.00	0.663	
Toluene*	<0.050	0.050	06/09/2017	ND	1.97	98.5	2.00	0.305	
Ethylbenzene*	<0.050	0.050	06/09/2017	ND	2.12	106	2.00	0.756	
Total Xylenes*	<0.150	0.150	06/09/2017	ND	5.75	95.9	6.00	0.766	
Total BTEX	<0.300	0.300	06/09/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	06/09/2017	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2017	ND	218	109	200	5.54	
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	237	119	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	06/09/2017	ND					

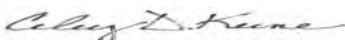
Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 107 % 34.7-157

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Received:	06/07/2017	Sampling Date:	06/01/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 8 @ 6' (H701490-41)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	06/09/2017	ND	448	112	400	3.64	

Sample ID: SP 8 @ 8' (H701490-42)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/09/2017	ND	448	112	400	3.64	

Sample ID: SP 8 @ 9' (H701490-43)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/09/2017	ND	448	112	400	3.64	

Sample ID: SP 8 @ 14' (H701490-44)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/09/2017	ND	448	112	400	3.64	

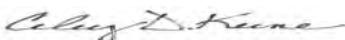
Sample ID: SP 8 @ 18' (H701490-45)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/09/2017	ND	448	112	400	3.64	

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Received:	06/07/2017	Sampling Date:	06/01/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 9 @ SURFACE (H701490-46)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/09/2017	ND	448	112	400	3.64	

Sample ID: SP 10 @ SURFACE (H701490-47)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/09/2017	ND	448	112	400	3.64	

Sample ID: SP 11 @ 1' (H701490-48)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	06/09/2017	ND	448	112	400	3.64	

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

Received:	06/07/2017	Sampling Date:	06/01/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 11 @ 3' (H701490-49)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2017	ND	1.97	98.7	2.00	0.663	
Toluene*	<0.050	0.050	06/09/2017	ND	1.97	98.5	2.00	0.305	
Ethylbenzene*	<0.050	0.050	06/09/2017	ND	2.12	106	2.00	0.756	
Total Xylenes*	<0.150	0.150	06/09/2017	ND	5.75	95.9	6.00	0.766	
Total BTEX	<0.300	0.300	06/09/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	06/09/2017	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2017	ND	218	109	200	5.54	
DRO >C10-C28	<10.0	10.0	06/09/2017	ND	237	119	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	06/09/2017	ND					

Surrogate: 1-Chlorooctane 94.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.3 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/07/2017	Sampling Date:	06/01/2017
Reported:	06/13/2017	Sampling Type:	Soil
Project Name:	PYGYMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: SP 11 @ 6' (H701490-50)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	06/09/2017	ND	448	112	400	0.00	QM-07

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Celey D. Keene, Lab Director/Quality Manager

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





CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc. P.O. #: COG

Project Manager: Cliff Brunson Company: COG

Address: P.O. Box 805 City: Hobbs

City: Hobbs State: NM Zip: 88241 Attn: Rebecca Haskell

Phone #: 575-397-6388 Fax #: 575-397-0397 Address:

Project #: Project Owner: COG City: State: Zip:

Project Name: PYGMY 27 STATE #002H Phone #: Fax #:

Project Location: LEA COUNTY, NM

Sampler Name: JEFF ORNELAS

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CL	BTEX	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
	SP1 @ 1'	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/30/17	9:40 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	SP1 @ 6'	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/30/17	9:50 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	SP1 @ 10'	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/30/17	10:05 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	SP2 @ 1'	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/30/17	10:33 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	SP2 @ 6'	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/30/17	10:45 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	SP2 @ 10'	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/30/17	11:00 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	SP3 @ 1'	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/30/17	11:11 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	SP3 @ 3'	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/30/17	11:31 AM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	SP3 @ 6'	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/30/17	12:44 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	SP3 @ 8'	S	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5/30/17	1:01 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				

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Relinquished By: Jeff Ornelas Date: 6/11/17 Received By: Cliff Brunson

Relinquished By: Jeff Ornelas Date: 6/7/17 Received By: Cliff Brunson

Time: 9:30

Delivered By: (Circle One) UPS Bus Other # 75-10.16

Sample Condition: Cool Intact Yes No

CHECKED BY: Jeff Ornelas

Phone Result: Yes No Add'l Phone #: _____

Fax Result: Yes No Add'l Fax #: _____

REMARKS: _____

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3045

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc. P.O. #:
 Project Manager: Cliff Brunson Company: *COG*
 Address: P.O. Box 805 City: *Verona* *Haskell*
 City: Hobbs State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #: Project Owner: *COG*
 Project Name: PYGMY 27 STATE #002H State: Zip:
 Project Location: LEA COUNTY, NM Phone #:
 Sampler Name: JEFF ORNELAS Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CI	BTEX	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>HTD149D</i>														
	21	SP5 @ 10'	5						5/31/17	1:03 PM	✓			
	22	SP5 @ 15'	5						5/31/17	1:19 PM	✓			
	23	SP5 @ 18'	5						5/31/17	1:33 PM	✓			
	24	SP6 @ 1'	5						5/31/17	1:41 PM	✓			
	25	SP6 @ 3'	5						5/31/17	2:02 PM	✓			
	26	SP6 @ 6'	5						5/31/17	2:32 PM	✓			
	27	SP6 @ 8'	5						5/31/17	3:03 PM	✓			
	28	SP6 @ 10'	5						5/31/17	3:11 PM	✓			
	29	SP6 @ 11'	5						5/31/17	3:13 PM	✓			
	30	SP6 @ 16'	5						5/31/17	3:25 PM	✓			

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Relinquished By: *Jeff Ornelas* Date: *5/11/17* Received By: *Rajiv Lio*
 Relinquished By: *Jeff Ornelas* Date: *5/30/17* Received By: *Scott Jensen*
 Delivered By: *Jeff Ornelas* Time: *9:30* Sample Condition: Intact Cool Yes No
 Sampler - UPS - Bus - Other: *#75-10.10* CHECKED BY: *Scott Jensen*
 REMARKS:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4085

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:
Project Manager: Cliff Brunson		Company: <i>COG</i>
Address: P.O. Box 805		Attn: <i>Veronica Haskell</i>
City: Hobbs		Address:
State: NM zip: 88241		City:
Phone #: 575-397-6388		State:
Fax #: 575-397-0397		Zip:
Project #: <i>COG</i>		
Project Name: PYGMY 27 STATE #002H		
Project Location: LEA COUNTY, NM		
Sampler Name: JEFF ORNELAS		
FOR LAB USE ONLY		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CI	BTEX	TAT
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>HTD1490</i>	SP6 @ 18'	G	1			✓				5/31/17	3:45 PM	✓		
	SP7 @ 1'	G	1			✓				5/31/17	3:47 PM	✓		
	SP7 @ 3'	G	1			✓				6/1/17	9:11 AM	✓		
	SP7 @ 6'	G	1			✓				6/1/17	9:59 AM	✓		
	SP7 @ 8'	G	1			✓				6/1/17	10:30 AM	✓		
	SP7 @ 10'	G	1			✓				6/1/17	11:01 AM	✓		
	SP7 @ 15'	G	1			✓				6/1/17	11:22 AM	✓		
	SP7 @ 18'	G	1			✓				6/1/17	11:30 AM	✓		
	SP8 @ 1'	G	1			✓				6/1/17	11:33 AM	✓		
	SP8 @ 3'	G	1			✓				6/1/17	11:41 AM	✓		

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>6/1/17</i>	Received By: <i>Jeff Ornelas</i>	Date: <i>6/1/17</i>	Time: <i>9:55</i>	Sample Condition	CHECKED BY: <i>Jeff Ornelas</i>
Relinquished By: <i>Jeff Ornelas</i>	Date: <i>6/1/17</i>	Received By: <i>Jeff Ornelas</i>	Date: <i>6/1/17</i>	Time: <i>9:55</i>	Sample Condition	CHECKED BY: <i>Jeff Ornelas</i>
Delivered By: <i>Jeff Ornelas</i>	Time: <i>9:55</i>	Received By: <i>Jeff Ornelas</i>	Date: <i>6/1/17</i>	Time: <i>9:55</i>	Sample Condition	CHECKED BY: <i>Jeff Ornelas</i>
Sampler - UPS - Bus - Other: <i>#75 - 10.10</i>	Time: <i>9:55</i>	Received By: <i>Jeff Ornelas</i>	Date: <i>6/1/17</i>	Time: <i>9:55</i>	Sample Condition	CHECKED BY: <i>Jeff Ornelas</i>

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5055

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #: _____ Project Owner: _____
 Project Name: PYGMY 27 STATE #002H
 Project Location: LEA COUNTY, NM
 Sampler Name: JEFF ORNELAS
 P.O. #: _____ Company: COG
 Attn: Veronica Hernandez
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CI	BTEX	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HTD149D														
41	SP8 @ 6'		5						6/1/17	12:11 PM	✓			
42	SP8 @ 8'		5						6/1/17	1:05 PM	✓			
43	SP8 @ 9'		5						6/1/17	1:11 PM	✓			
44	SP8 @ 14'		5						6/1/17	1:22 PM	✓			
45	SP8 @ 18'		5						6/1/17	1:33 PM	✓			
46	SP9 @ SURFACE		5						6/1/17	1:48 PM	✓			
47	SP10 @ SURFACE		5						6/1/17	1:55 PM	✓			
48	SP11 @ 1'		5						6/1/17	2:10 PM	✓			
49	SP11 @ 3'		5						6/1/17	2:22 PM	✓			
50	SP11 @ 6'		5						6/1/17	3:01 PM	✓			

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Relinquished By: *Jeff Ornelas* Date: *6/1/17* Time: *3:30 PM*
 Received By: *Cliff Brunson* Date: *6/1/17* Time: *9:30*
 Delivered By: (Circle One) *Veronica Hernandez*
 Sampler - UPS - Bus - Other: *#75-10.10*
 Sample Condition: Intact Cool Yes No
 CHECKED BY: *Jeff Ornelas*

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

June 19, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PYGMY 27 STATE #002H

Enclosed are the results of analyses for samples received by the laboratory on 06/13/17 11:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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

Analytical Results For:

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

Received:	06/13/2017	Sampling Date:	06/08/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 11 @ 8' (H701546-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	06/14/2017	ND	432	108	400	0.00	

Sample ID: SP 11 @ 9' (H701546-02)

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	06/14/2017	ND	432	108	400	0.00	

Sample ID: SP 11 @ 10' (H701546-03)

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	06/14/2017	ND	432	108	400	0.00	

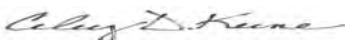
Sample ID: SP 11 @ 15' (H701546-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/14/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/13/2017	Sampling Date:	06/08/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 11 @ 17' (H701546-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	06/14/2017	ND	432	108	400	0.00	

Sample ID: SP 12 @ 1' (H701546-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	06/14/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/13/2017	Sampling Date:	06/08/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 12 @ 3' (H701546-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	0.885		
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422		
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03		
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37		
Total BTEX	<0.300	0.300	06/14/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7760	16.0	06/14/2017	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2017	ND	187	93.6	200	0.233		
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48		
EXT DRO >C28-C36	<10.0	10.0	06/14/2017	ND						

Surrogate: 1-Chlorooctane 99.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.6 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/13/2017	Sampling Date:	06/08/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 12 @ 5' (H701546-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12700	16.0	06/14/2017	ND	432	108	400	0.00	

Sample ID: SP 12 @ 7' (H701546-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	06/14/2017	ND	432	108	400	0.00	

Sample ID: SP 13 @ 1' (H701546-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	06/14/2017	ND	432	108	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:	06/13/2017	Sampling Date:	06/08/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 13 @ 3' (H701546-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	0.885		
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422		
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03		
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37		
Total BTEX	<0.300	0.300	06/14/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11800	16.0	06/14/2017	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2017	ND	187	93.6	200	0.233		
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48		
EXT DRO >C28-C36	<10.0	10.0	06/14/2017	ND						

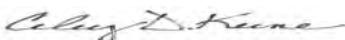
Surrogate: 1-Chlorooctane 101 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.1 % 34.7-157

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

Received:	06/13/2017	Sampling Date:	06/08/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 13 @ 5' (H701546-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	06/14/2017	ND	432	108	400	0.00	

Sample ID: SP 13 @ 7' (H701546-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	06/14/2017	ND	432	108	400	0.00	

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Received:	06/13/2017	Sampling Date:	06/08/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 14 @ 1' (H701546-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	0.885	
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422	
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03	
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37	
Total BTEX	<0.300	0.300	06/14/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/14/2017	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/14/2017	ND	187	93.6	200	0.233	
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/14/2017	ND					

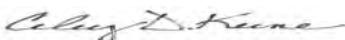
Surrogate: 1-Chlorooctane 100 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.0 % 34.7-157

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

Received:	06/13/2017	Sampling Date:	06/08/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 14 @ 6' (H701546-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/14/2017	ND	432	108	400	0.00	

Sample ID: SP 14 @ 7' (H701546-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	06/14/2017	ND	432	108	400	0.00	

Sample ID: SP 15 @ 1' (H701546-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	06/14/2017	ND	432	108	400	0.00	

Sample ID: SP 15 @ 2' (H701546-18)

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	06/14/2017	ND	432	108	400	0.00	

Sample ID: SP 15 @ 7' (H701546-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/14/2017	ND	416	104	400	3.77	

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

Received:	06/13/2017	Sampling Date:	06/09/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 16 @ 1' (H701546-20)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	0.885		
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422		
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03		
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37		
Total BTEX	<0.300	0.300	06/14/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	06/14/2017	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2017	ND	187	93.6	200	0.233		
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48		
EXT DRO >C28-C36	<10.0	10.0	06/14/2017	ND						

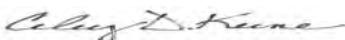
Surrogate: 1-Chlorooctane 107 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.4 % 34.7-157

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

Received:	06/13/2017	Sampling Date:	06/09/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGYMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 16 @ 2' (H701546-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/14/2017	ND	416	104	400	3.77	

Sample ID: SP 16 @ 7' (H701546-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/14/2017	ND	416	104	400	3.77	

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

Received:	06/13/2017	Sampling Date:	06/09/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 17 @ 1' (H701546-23)

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	06/14/2017	ND	2.38	119	2.00	0.885		
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422		
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03		
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37		
Total BTEX	<0.300	0.300	06/14/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	06/14/2017	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2017	ND	187	93.6	200	0.233		
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48		
EXT DRO >C28-C36	<10.0	10.0	06/14/2017	ND						

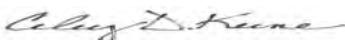
Surrogate: 1-Chlorooctane 97.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.0 % 34.7-157

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 Fax To: (575) 397-0397

Received:	06/13/2017	Sampling Date:	06/09/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 17 @ 2' (H701546-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/14/2017	ND	416	104	400	3.77	

Sample ID: SP 17 @ 7' (H701546-25)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/14/2017	ND	416	104	400	3.77	

Sample ID: SP 18 @ 1' (H701546-26)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	06/14/2017	ND	416	104	400	3.77	

Sample ID: SP 18 @ 2' (H701546-27)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/14/2017	ND	416	104	400	3.77	

Sample ID: SP 18 @ 7' (H701546-28)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/14/2017	ND	416	104	400	3.77	

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

Received:	06/13/2017	Sampling Date:	06/09/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 19 @ 1' (H701546-29)

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	06/14/2017	ND	2.38	119	2.00	0.885		
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422		
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03		
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37		
Total BTEX	<0.300	0.300	06/14/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	06/14/2017	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/14/2017	ND	187	93.6	200	0.233		
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48		
EXT DRO >C28-C36	<10.0	10.0	06/14/2017	ND						

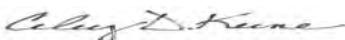
Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.4 % 34.7-157

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/13/2017	Sampling Date:	06/09/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 19 @ 2' (H701546-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/14/2017	ND	416	104	400	3.77	

Sample ID: SP 19 @ 7' (H701546-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/14/2017	ND	416	104	400	3.77	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/13/2017	Sampling Date:	06/11/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 20 @ 1' (H701546-32)

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	06/14/2017	ND	2.38	119	2.00	0.885	
Toluene*	<0.050	0.050	06/14/2017	ND	2.32	116	2.00	0.422	
Ethylbenzene*	<0.050	0.050	06/14/2017	ND	2.38	119	2.00	1.03	
Total Xylenes*	<0.150	0.150	06/14/2017	ND	6.39	107	6.00	1.37	
Total BTEX	<0.300	0.300	06/14/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	06/14/2017	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/14/2017	ND	187	93.6	200	0.233	
DRO >C10-C28	<10.0	10.0	06/14/2017	ND	191	95.5	200	3.48	
EXT DRO >C28-C36	<10.0	10.0	06/14/2017	ND					

Surrogate: 1-Chlorooctane 101 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.3 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/13/2017	Sampling Date:	06/11/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 20 @ 2' (H701546-33)

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	06/14/2017	ND	416	104	400	3.77	

Sample ID: SP 20 @ 7' (H701546-34)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/14/2017	ND	416	104	400	3.77	

Sample ID: NORTH (H701546-35)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/14/2017	ND	416	104	400	3.77	

Sample ID: SOUTH (H701546-36)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/14/2017	ND	416	104	400	3.77	

Sample ID: EAST (H701546-37)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/14/2017	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/13/2017	Sampling Date:	06/11/2017
Reported:	06/19/2017	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: WEST (H701546-38)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/14/2017	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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





ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

194

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

State: NM Zip: 88241

Fax #: 575-397-0397

Project Owner: P.O.G.

Project Name: PYGMY 27 ST. # 002H

Project Location: RIVER HERMANDEZ

Sampler Name: RIVER HERMANDEZ

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.
 # CONTAINERS
 GROUNDWATER
 WASTEWATER
 SOIL
 OIL
 SLUDGE
 OTHER:
 ACID/BASE:
 ICE / COOL
 OTHER:

MATRIX

PRESERV

SAMPLING

DATE TIME

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	ANALYSIS REQUEST
H701546	SP11 @ 8'	G	1	✓	✓	✓	6-8-17	910	T PH. EXTENDED
1	@ 9'	G	1	✓	✓	✓	6-8-17	922	BTEX
2	@ 10'	G	1	✓	✓	✓	6-8-17	935	CHLORIDE
3	@ 15'	G	1	✓	✓	✓	6-8-17	950	
4	@ 17'	G	1	✓	✓	✓	6-8-17	1020	
5	@ 17'	G	1	✓	✓	✓	6-8-17	1000	
6	@ 35'	G	1	✓	✓	✓	6-8-17	1135	
7	@ 35'	G	1	✓	✓	✓	6-8-17	1108	
8	@ 37'	G	1	✓	✓	✓	6-8-17	115	
9	@ 37'	G	1	✓	✓	✓	6-8-17	115	
10	SP13 @ 1'	G	1	✓	✓	✓	6-8-17	1148	

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Relinquished By:

Relinquished By: *Robert Hernandez*

Date:

Date: 6-13-17

Received By:

Received By: *Janora White*

Checked By:

Checked By: *Janora White*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

1.90

Sample Condition
 Cool Intact
 Yes No

REMARKS:
 Head space on some. 70.

† 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

244

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #: Project Owner: C.O.G.
 Project Name: PYGMY 27 ST# 002H
 Project Location: ROBERTSON
 Sampler Name: ROBERTSON
 P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	TPH, EXTENDED BTEX CHLORIDE
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER			
HTD1546	SP13 @ 3-	G	1							6-8-17	215	
	SP13 @ 5-	G	1							6-8-17	295	
	SP14 @ 1-	G	1							6-8-17	320	
	SP14 @ 2-	G	1							6-8-17	530	
	SP14 @ 3-	G	1							6-8-17	400	
	SP15 @ 1	G	1							6-9-17	935	
	SP15 @ 2	G	1							6-9-17	956	
	SP16 @ 1	G	1							6-9-17	1020	
		G	1							6-9-17	1055	

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Relinquished By: *Robert Robertson* Date: _____ Received By: _____ Date: _____
 Time: _____ Time: _____
 Relinquished By: *Robert Robertson* Date: 6-13-17 Received By: *Anna Black* Date: 7-2-17
 Time: 11:55 Time: 1:00

Delivered By: (Circle One) UPS Bus Other: _____
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Cool Intact Yes No No No
 CHECKED BY: (Initials) *TS*
 Head space on some T.O.

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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

391

P.O. #: _____

Company: _____

Attn: _____

Address: _____

City: _____

State: _____

Phone #: _____

Fax #: _____

Address: _____

City: _____

State: _____

Zip: _____

ANALYSIS REQUEST

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

State: NM Zip: 88241

Phone #: 575-397-6388

Fax #: 575-397-0397

Project Owner: P.O.G

Project #: P.O.G 27 ST # 002H

Project Name: _____

Project Location: _____

Sampler Name: Roger Hernandez

FOR LAB USE ONLY

Sample I.D. H701546

Sample I.D. SP16 @ 2'

SP17 @ 7'

SP18 @ 7'

SP19 @ 1'

SP16 @ 2'

SP17 @ 7'

SP18 @ 7'

SP19 @ 1'

SP16 @ 2'

SP17 @ 7'

SP18 @ 7'

SP19 @ 1'

SP16 @ 2'

SP17 @ 7'

SP18 @ 7'

SP19 @ 1'

SP16 @ 2'

SP17 @ 7'

SP18 @ 7'

SP19 @ 1'

TPH, EXTENDED
BTEX
CHLORIDE

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Relinquished By: Roger Hernandez

Date: _____

Time: _____

Received By: Juanana L. Chavez

Date: 4-13-17

Time: 11:55

Delivered By: (Circle One) UPS - Bus - Other: 1.9c

Sample Condition: Cool Intact

Checked By: _____

REMARKS: Head space on some 70.

Phone Result: Yes No

Fax Result: Yes No

Add'l Phone #: _____

Add'l Fax #: _____

REMARKS:

Head space on some 70.

† 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

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson

Address: P.O. Box 805
 City: Hobbs
 State: NM Zip: 88241

Phone #: 575-397-6388
 Fax #: 575-397-0397

Project #: *27 ST # 102H*
 Project Owner: *A. D. G.*

Project Location: *PERFORMANCE 2*

Sampler Name: *PERFORMANCE 2*

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:				ICE / COOL
<i>H10546</i>	<i>SP19@7</i>		<i>1</i>	<input checked="" type="checkbox"/>	<i>6-11-17</i>	<i>3:00</i>	<i>TPH, EXTENDED</i>							
	<i>SP20@1</i>		<i>1</i>	<input checked="" type="checkbox"/>	<i>6-11-17</i>	<i>10:58</i>	<i>BTEX</i>							
	<i>31</i>		<i>1</i>	<input checked="" type="checkbox"/>	<i>6-11-17</i>	<i>11:08</i>	<i>CHLORINE</i>							
	<i>32</i>		<i>1</i>	<input checked="" type="checkbox"/>	<i>6-11-17</i>	<i>11:10</i>								
	<i>33</i>		<i>1</i>	<input checked="" type="checkbox"/>	<i>6-11-17</i>	<i>11:10</i>								
	<i>34</i>		<i>1</i>	<input checked="" type="checkbox"/>	<i>6-11-17</i>	<i>11:10</i>								
	<i>35</i>		<i>1</i>	<input checked="" type="checkbox"/>	<i>6-11-17</i>	<i>11:10</i>								
	<i>36</i>	<i>NORTH</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>6-11-17</i>	<i>11:10</i>								
	<i>37</i>	<i>SOUTH</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>6-11-17</i>	<i>11:10</i>								
	<i>38</i>	<i>EAST</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>6-11-17</i>	<i>11:30</i>								
		<i>WEST</i>	<i>1</i>	<input checked="" type="checkbox"/>	<i>6-11-17</i>	<i>11:30</i>								

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Relinquished By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: *6-13-17* Time: *11:55*
 Received By: *Jawana Black* Date: _____ Time: _____

Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Cool Intact Yes No

CHECKED BY: (Initials) *JD*
 REMARKS: *Head space on some TO.*

August 28, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PYGMY 27 STATE #2H

Enclosed are the results of analyses for samples received by the laboratory on 08/21/17 14:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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

Analytical Results For:

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

Received:	08/21/2017	Sampling Date:	08/17/2017
Reported:	08/28/2017	Sampling Type:	Soil
Project Name:	PYGYM 27 STATE #2H	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 12' (H702223-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 3 @ 14' (H702223-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 3 @ 19' (H702223-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/24/2017	ND	416	104	400	0.00	

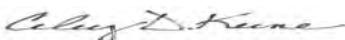
Sample ID: SP 4 @ 12' (H702223-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	08/24/2017	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/21/2017
 Reported: 08/28/2017
 Project Name: PYGMY 27 STATE #2H
 Project Number: NOT GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 08/17/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 14' (H702223-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 4 @ 19' (H702223-06)

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	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 4 @ 20' (H702223-07)

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	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 11 @ 18' (H702223-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 11 @ 19' (H702223-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/24/2017	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/21/2017
 Reported: 08/28/2017
 Project Name: PYGMY 27 STATE #2H
 Project Number: NOT GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 08/17/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 11 @ 22' (H702223-10)

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	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 12 @ 9' (H702223-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 12 @ 11' (H702223-12)

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	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 12 @ 16' (H702223-13)

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	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 13 @ 9' (H702223-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	08/24/2017	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/21/2017
 Reported: 08/28/2017
 Project Name: PYGMY 27 STATE #2H
 Project Number: NOT GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 08/17/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 13 @ 10' (H702223-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 13 @ 15' (H702223-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 14 @ 9' (H702223-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/24/2017	ND	416	104	400	0.00	

Sample ID: SP 14 @ 10' (H702223-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/24/2017	ND	416	104	400	0.00	

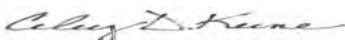
Sample ID: SP 14 @ 15' (H702223-19)

Chloride, SM4500CI-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	08/24/2017	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/21/2017
 Reported: 08/28/2017
 Project Name: PYGMY 27 STATE #2H
 Project Number: NOT GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 08/18/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 15 @ 8' (H702223-20)

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	08/24/2017	ND	448	112	400	7.41	

Sample ID: SP 15 @ 13' (H702223-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/24/2017	ND	448	112	400	7.41	

Sample ID: SP 18 @ 8' (H702223-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/24/2017	ND	448	112	400	7.41	

Sample ID: SP 18 @ 9' (H702223-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/24/2017	ND	448	112	400	7.41	

Sample ID: SP 18 @ 14' (H702223-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/24/2017	ND	448	112	400	7.41	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/21/2017
 Reported: 08/28/2017
 Project Name: PYGMY 27 STATE #2H
 Project Number: NOT GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 08/18/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 20 @ 8' (H702223-25)

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	08/24/2017	ND	448	112	400	7.41	

Sample ID: SP 20 @ 13' (H702223-26)

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	08/24/2017	ND	448	112	400	7.41	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs
 State: NM zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #: Project Owner: COG
 Project Name: Pygmy 27 State F 2H
 Project Location: Lea County
 Sampler Name: Jeff Orndorff
 P.O. #: Company: COG
 Attn: Haspell
 Address: City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :											
H102203	SP3012	(G)	1							8-17-17	9:22am									
	SP3014	(G)	1								9:40am									
	SP3019	(G)	1								9:45am									
	SP4012	(G)	1								10:22am									
	SP4014	(G)	1								10:40am									
	SP4019	(G)	1								10:55am									
	SP4020	(G)	1								11:15am									
	SP11018	(G)	1								11:30am									
	SP11019	(G)	1								11:30am									
	SP11022	(G)	1								11:55am									

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Relinquished By: [Signature] Date: 8/18/17 Received By: [Signature] Date: 8-21-17
 Relinquished By: [Signature] Date: 8-21-17 Received By: [Signature] Date: 8-21-17
 Delivered By: (Circle One) 12:38
 Sampler - UPS - Bus - Other: [Signature] 12:43
 Sample Condition: Cool Intact Yes No Yes No
 CHECKED BY: [Signature] (Initials) 12:43

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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.	P.O. #: _____
Project Manager: Cliff Brunson	Company: COG
Address: P.O. Box 805	Attn: Haswell
City: Hobbs	Address: _____
State: NM Zip: 88241	City: _____
Phone #: 575-397-6388	State: _____ Zip: _____
Fax #: 575-397-0397	Phone #: _____
Project #: _____	Fax #: _____
Project Name: Pygmy 27 State # 4th	
Project Location: Lea County	
Sampler Name: Jeff Orndorfs	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H102223	SP12 @ 9	G	1	<input checked="" type="checkbox"/>	8-17-17	12:51pm	<input checked="" type="checkbox"/>					
	SP12 @ 11	G	1	<input checked="" type="checkbox"/>		1:20pm	<input checked="" type="checkbox"/>					
	SP12 @ 16	G	1	<input checked="" type="checkbox"/>		1:45pm	<input checked="" type="checkbox"/>					
	SP13 @ 9	G	1	<input checked="" type="checkbox"/>		2:02pm	<input checked="" type="checkbox"/>					
	SP13 @ 10	G	1	<input checked="" type="checkbox"/>		2:30pm	<input checked="" type="checkbox"/>					
	SP13 @ 15	G	1	<input checked="" type="checkbox"/>		2:55pm	<input checked="" type="checkbox"/>					
	SP14 @ 9	G	1	<input checked="" type="checkbox"/>		3:15pm	<input checked="" type="checkbox"/>					
	SP14 @ 10	G	1	<input checked="" type="checkbox"/>		3:22pm	<input checked="" type="checkbox"/>					
	SP14 @ 15	G	1	<input checked="" type="checkbox"/>		3:45pm	<input checked="" type="checkbox"/>					
	SP15 @ 8	G	1	<input checked="" type="checkbox"/>		8:18-17 8:59am	<input checked="" type="checkbox"/>					

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Relinquished By: <i>Jeff Orndorfs</i>	Date: 8/18/17	Received By: <i>Debbie Orndorfs</i>	Date: 8-21-17
Time: 2:30pm		Time: 12:53pm	
Delivered By: (Circle One) <i>UPS</i>	Sample Condition: <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact	Checked By: <i>Debbie Orndorfs</i>	Initials: <i>DO</i>
Sampler - UPS - Bus - Other: <i>Protected 12:53pm</i>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>VE #125</i>

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

2075



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3073

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs
 State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #:
 Project Owner: COG
 Project Name: Pygmy 27 State Path
 Project Location: Lea County
 Sampler Name: Jeff Ornelas

P.O. #:
 Company: COG
 Attn: H. Skell
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :									
H102223	SP15 @ 13	G								8/8/17	9:40am							
	21 SP18 @ 8	G																
	22 SP18 @ 9	G																
	23 SP18 @ 14	G																
	24 SP20 @ 8	G																
	25 SP20 @ 13	G																
	26 SP20 @ 13	G																

*alpha
corner*

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Relinquished By: *Jeff Ornelas* Date: *8-21-17* Time: *3:30pm* Received By: *James Blakely*
 Relinquished By: *Heather Ornelas* Date: *8-21-17* Time: *2:43* Received By: *James Blakely*

Delivered By: (Circle One) *12:32* UPS Bus Other: *Parcels 12:55* Sample Condition: Cool Intact Yes No Yes No CHECKED BY: *TD.HS*

Sampler - UPS - Bus - Other: *Parcels 12:55*

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

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

January 18, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PYGMY 27 STATE #002H

Enclosed are the results of analyses for samples received by the laboratory on 01/15/18 10:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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

Analytical Results For:

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

Received:	01/15/2018	Sampling Date:	01/05/2018
Reported:	01/18/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	(5/6/17)	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: 1 - SIDEWALL (H800152-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

Sample ID: 2 - SIDEWALL (H800152-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

Sample ID: 3 - SIDEWALL (H800152-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

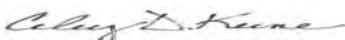
Sample ID: 4 - SIDEWALL (H800152-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/15/2018	Sampling Date:	01/05/2018
Reported:	01/18/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	(5/6/17)	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: 5 - SIDEWALL (H800152-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

Sample ID: 6 - SIDEWALL (H800152-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

Sample ID: 7 - SIDEWALL (H800152-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

Sample ID: 8 - SIDEWALL (H800152-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

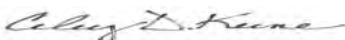
Sample ID: 9 - SIDEWALL (H800152-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/15/2018	Sampling Date:	01/08/2018
Reported:	01/18/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	(5/6/17)	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: 10 - SIDEWALL (H800152-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

Sample ID: 11 - SIDEWALL (H800152-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

Sample ID: 12 - BOTTOM (H800152-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

Sample ID: 13 - SIDEWALL (H800152-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	10.9	

Sample ID: 14 - BOTTOM (H800152-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/15/2018	Sampling Date:	01/03/2018
Reported:	01/18/2018	Sampling Type:	Soil
Project Name:	PYGMY 27 STATE #002H	Sampling Condition:	Cool & Intact
Project Number:	(5/6/17)	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: 15 - SIDEWALL (H800152-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	3.92	

Sample ID: 16 - BOTTOM (H800152-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	3.92	

Sample ID: 17 - SIDEWALL (H800152-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	3.92	

Sample ID: 18 - BOTTOM (H800152-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	3.92	

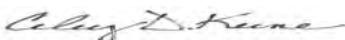
Sample ID: 19 - SIDEWALL (H800152-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2018	ND	416	104	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

107

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:								
Project Manager: Cliff Brunson		Company: <i>COE</i>								
Address: P.O. Box 805		Attn: <i>Becky Hestell</i>								
City: Hobbs	State: NM Zip: 88241	Address:								
Phone #: 575-397-6388	Fax #: 575-397-0397	City:								
Project #:	Project Owner:	State: Zip:								
Project Name: Pymmy 27 State #002H (5/6/17)		Phone #:								
Project Location: Lea County, NM		Fax #:								
Sampler Name: Price Brunson		PRESERV								
FOR LAB USE ONLY		SAMPLING								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	DATE	TIME						
<i>H800152</i>										
1-Sidewall		<i>6</i>	1/5/18	10:00 am	<i>✓</i>					
2-Sidewall		<i>6</i>	1/5/18	10:15 am	<i>✓</i>					
3-Sidewall		<i>6</i>	1/5/18	10:30 am	<i>✓</i>					
4-Sidewall		<i>6</i>	1/5/18	10:45 am	<i>✓</i>					
5-Sidewall		<i>6</i>	1/5/18	10:55 am	<i>✓</i>					
6-Sidewall		<i>6</i>	1/8/18	10:30 am	<i>✓</i>					
7-Sidewall		<i>6</i>	1/8/18	10:40 am	<i>✓</i>					
8-Sidewall		<i>6</i>	1/8/18	10:50 am	<i>✓</i>					
9-Sidewall		<i>6</i>	1/8/18	2:50 pm	<i>✓</i>					
10-Sidewall		<i>6</i>	1/8/18	3:00 pm	<i>✓</i>					

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Relinquished By:	Date: <i>1/18/18</i>	Received By:	Date: <i>1/18/18</i>
Time: <i>9:00am</i>		Time: <i>9:00am</i>	
Relinquished By: <i>[Signature]</i>		Received By: <i>[Signature]</i>	
Delivered By: (Circle One) <i>#75</i>	UPS	Bus	Other
Time: <i>4:42 / 4:05</i>			
Sample Condition	Checked By: <i>[Signature]</i>		
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
REMARKS:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	
	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:	

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

corrected + 25¢



ARDINAL LABORATORIES
 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 8

Company Name: BBC International, Inc. **BILL TO** ANALYSIS REQUEST

Project Manager: Cliff Brunson P.O. #: Company: *COG*

Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Attn: *Kelley Heston*

Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Address: City: Project Owner:

Project Name: Pymmy 27 State #002H (5/6/17) State: Zip: Project Location: Lea County, NM Phone #: Project Name: Price Brunson Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :											
<i># 800152</i>																				
11	11-Sidewall		6									1/8/18	3:15 pm							
12	12-Bottom		6									1/3/18	1:30 pm							
13	13-Sidewall		6									1/3/18	1:50 pm							
14	14-Bottom		6									1/3/18	2:00 pm							
15	15-Sidewall		6									1/3/18	2:10 pm							
16	16-Bottom		6									1/3/18	3:00 pm							
17	17-Sidewall		6									1/3/18	3:10 pm							
18	18-Bottom		6									1/3/18	3:20 pm							
19	19-Sidewall		6									1/3/18	3:30 pm							

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Relinquished By: *[Signature]* Date: *1/13/18* Received By: *[Signature]* Date: *1/15/18*

Relinquished By: *[Signature]* Time: *4:00am* Received By: *[Signature]* Time: *10:20*

Delivered By: (Circle One) *#75* Sample Condition: *Intact* Checked By: *[Signature]*

Sampler - UPS - Bus - Other: *416/4.652* *for release 1.252*

Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS:

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

From: Yu, Olivia, EMNRD
To: [Cliff Brunson](#); [Amber Groves](#)
Cc: [Becky Haskell](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: RE: COG Pygmy 27 State #002H (1RP-4694) - Delineation Workplan
Date: Thursday, September 28, 2017 12:01:13 PM

Dear Mr. Brunson:

Please note that the eastern of the release is within 1000 ft. radius of a NMOSE well (CP00601 POD 1).

NMOCD will consider vertical delineation completed for 1RP-4694.

Please address these concerns regarding the proposed remedial activities.

1. Based on the data provided, the area represented by SP1, SP2, and SP14 does not require remediation. However, confirmation surface (0-6") samples of the edges are required to complete horizontal delineation.
2. Permissible chloride levels of 600 mg/kg are exceeded at 2 ft. bgs at the area represented by SP3-SP8 and SP11-SP13. NMOCD requires a 4 ft. excavation and a properly set liner.
3. NMOCD accepts that the area represented by SP9 and SP10 does not require remediation. However, confirmation surface samples of the edges of this area and sidewall samples at the border demarcating the SP9/10 area (pink) and SP8/SP11 (green) are required.
4. The proposed 1 ft. bgs excavation for the area represented by SP15-SP20 is granted.
5. Bottom and sidewall/edge samples for each of the proposed excavation areas are required. Distance between sample locations should be no greater than 50 ft. apart. At least one sample must be from the borders between the areas with differing excavation depths.
6. Provide a scaled map with the confirmation bottom and sidewall sample locations marked, liner location outlined, and depth of excavated areas annotated in the remediation report.

Please confirm or inform if clarification is required. NMSLO may have additional stipulations and concerns.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Thursday, September 14, 2017 6:54 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Amber Groves <agroves@slo.state.nm.us>
Cc: Becky Haskell <rhaskell@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: COG Pygmy 27 State #002H (1RP-4694) - Delineation Workplan

Olivia and Amber,

Please find the attached Delineation Workplan and remediation proposal for the COG Pygmy 27 State #002H (1RP-4694). COG is requesting that you review this plan and is looking forward to both the OCD's and SLO's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com



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From: Rebecca Haskell
To: [Groves, Amber](#); [Yu, Olivia, EMNRD](#); [Cliff Brunson](#)
Cc: [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: RE: COG Pygmy 27 State #002H (1RP-4694) - Delineation Workplan
Date: Sunday, October 15, 2017 11:36:37 AM
Attachments: [image005.png](#)
[image001.png](#)

Ms. Groves / Ms. Yu,

BBC is making some edits to this work plan after meeting with the landowner of the western area of the spill and will be resubmitting it to you for an additional review. BBC will include a revegetation plan within the newly revised work plan.

Thank You,

Becky Haskell
Senior HSE Coordinator
COG Operating LLC
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-818-2372 | Main: 432.683.7443
Cell: 432-556-5130
rhaskell@concho.com



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From: Groves, Amber [<mailto:agroves@slo.state.nm.us>]
Sent: Thursday, October 12, 2017 3:19 PM
To: Yu, Olivia, EMNRD; Cliff Brunson
Cc: Rebecca Haskell; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: [External] RE: COG Pygmy 27 State #002H (1RP-4694) - Delineation Workplan

**** External email. Use caution. ****

Cliff,

NMSLO concurs with NMOCD on the below stipulations, however denies the current submittal due to lack of revegetation plan. Please revise to include revegetation procedures.

Thank you,

Amber Groves
Remediation Specialist

Field Operations Division
(575)392-3697
(575)263-3209 cell
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88240

.....
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From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]
Sent: Thursday, September 28, 2017 12:01 PM
To: Cliff Brunson <cbrunson@bbcinternational.com>; Groves, Amber <agroves@slo.state.nm.us>
Cc: Becky Haskell <rhaskell@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: RE: COG Pygmy 27 State #002H (1RP-4694) - Delineation Workplan

Dear Mr. Brunson:

Please note that the eastern of the release is within 1000 ft. radius of a NMOSE well (CP00601 POD 1).

NMOCD will consider vertical delineation completed for 1RP-4694.

Please address these concerns regarding the proposed remedial activities.

1. Based on the data provided, the area represented by SP1, SP2, and SP14 does not require remediation. However, confirmation surface (0-6") samples of the edges are required to complete horizontal delineation.
2. Permissible chloride levels of 600 mg/kg are exceeded at 2 ft. bgs at the area represented by SP3-SP8 and SP11-SP13. NMOCD requires a 4 ft. excavation and a properly set liner.
3. NMOCD accepts that the area represented by SP9 and SP10 does not require remediation. However, confirmation surface samples of the edges of this area and sidewall samples at the border demarcating the SP9/10 area (pink) and SP8/SP11 (green) are required.
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5. Bottom and sidewall/edge samples for each of the proposed excavation areas are required. Distance between sample locations should be no greater than 50 ft. apart. At least one sample must be from the borders between the areas with differing excavation depths.
6. Provide a scaled map with the confirmation bottom and sidewall sample locations marked,

liner location outlined, and depth of excavated areas annotated in the remediation report.

Please confirm or inform if clarification is required. NMSLO may have additional stipulations and concerns.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Thursday, September 14, 2017 6:54 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Amber Groves <agroves@slo.state.nm.us>
Cc: Becky Haskell <rhaskell@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: COG Pygmy 27 State #002H (1RP-4694) - Delineation Workplan

Olivia and Amber,

Please find the attached Delineation Workplan and remediation proposal for the COG Pygmy 27 State #002H (1RP-4694). COG is requesting that you review this plan and is looking forward to both the OCD's and SLO's approval.

If you have any questions, please let me know.

Thanks, Cliff

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