



DELINEATION WORKPLAN

COG – MAGNUM PRONTO STATE COM #004H (Leak Date: 10/18/18)

RP # 1RP-5253

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-5253.

The following information includes:

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

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

COG will excavate the spill area as depicted on the following site diagram. The leak areas near SP1-SP16 and SP21-SP24 (ORANGE shade on diagram) will be excavated to a depth of 6 inches. The leak area near SP17-SP19 (YELLOW shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP20 (BLUE shade on diagram) will be excavated to a depth of 1 foot.

Sidewall confirmation samples will be collected at no greater than 50 ft. intervals. Estimated volume of material to be removed is 643 cubic yards. The remediation will be completed within 90 days of plan approval.

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

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

Smith, Cory, EMNRD

From: Smith, Cory, EMNRD
Sent: Friday, March 15, 2019 2:07 PM
To: 'DeAnn Grant'; EMNRD-OCD-District1spills
Cc: Jennifer Knowlton; Ike Tavaréz; Robert McNeill; Sheldon Hitchcock; Dakota Neel; Rebecca Haskell
Subject: RE: (Resubmittal) COG Magnum Pronto State Com #004H (1RP-5253) - Delineation Workplan

DeAnn,

OCD has reviewed the Work plan for COG Magnum Pronto State Com #4H received on 3/15/19 and has approved it with the following conditions of Approval

- COG will collect confirmation samples per 19.15.29.12.D NMAC to include base and sidewalls of the excavation.
- COG will provide sample notification to OCD District 1 per 19.15.29.12.D.1.(A)
- As described in the Work plan, COG will submit a closure report no later than June 15, 2019. COG may request additional time per 19.15.29.12.B(2) if applicable.

This approval, along with the work plan will be scanned into 1RP-5253 asap.

Thanks,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: DeAnn Grant <agrant@concho.com>
Sent: Friday, March 15, 2019 7:46 AM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Cc: Jennifer Knowlton <jknowlton@concho.com>; Ike Tavaréz <itavarez@concho.com>; Robert McNeill <RMcNeill@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Dakota Neel <DNeel2@concho.com>; Rebecca Haskell <RHaskell@concho.com>; DeAnn Grant <agrant@concho.com>
Subject: [EXT] (Resubmittal) COG Magnum Pronto State Com #004H (1RP-5253) - Delineation Workplan

To Whom It May Concern,

Please find the attached Work Plan for the COG Magnum Pronto State Com #004H (1RP-5253) Release which occurred on 10/18/18. The work plan was originally submitted to the NMOC District 1 Office on November 16, 2018 and resubmitted on January 15, 2019. COG is requesting that you review this work plan. Also, attached is approval from the State Land Office.

Thank you,

DeAnn Grant

HSE Administrative Assistant

agrant@concho.com

COG Operating LLC#

600 W Illinois Avenue | Midland, TX 79701

Direct: 432-253-4513 | Main: 432.683.7443



From: Rebecca Haskell

Sent: Tuesday, January 15, 2019 1:30 PM

To: Hernandez, Christina, EMNRD <Christina.Hernandez@state.nm.us>

Cc: Dakota Neel <DNeel2@concho.com>; DeAnn Grant <agrant@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Ike Tavaréz <itavarez@concho.com>; Jennifer Knowlton <jknowlton@concho.com>; Mann, Ryan <rmann@slo.state.nm.us>

Subject: (Resubmittal) COG Magnum Pronto State Com #004H (1RP-5253) - Delineation Workplan

Ms. Hernandez,

Please find the attached Work Plan for the COG Magnum Pronto State Com #004H (1RP-5253) Release which occurred on 10/18/18. The work plan was originally submitted to the NMOCD District 1 Office on November 16, 2018. COG is requesting that you review this work plan. Also, attached is approval from the State Land Office.

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: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Friday, November 16, 2018 9:58 AM

To: 'Olivia Yu' <Olivia.Yu@state.nm.us>; 'Hernandez, Christina, EMNRD' <Christina.Hernandez@state.nm.us>; Ryan Mann <rmann@slo.state.nm.us>

Cc: Rebecca Haskell <RHaskell@concho.com>; Dakota Neel <DNeel2@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; DeAnn Grant <agrant@concho.com>; Ike Tavaréz <itavarez@concho.com>; 'Ken Swinney' <kswinney@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>

Subject: [External] COG Magnum Pronto State Com #004H (1RP-5253) - Delineation Workplan

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

Olivia, Christina, and Ryan,

Please find the attached Delineation Workplan and remediation proposal for the COG Magnum Pronto State Com #004H (1RP-5253). COG is requesting that you review this plan and is looking forward to 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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Incident ID	
District RP	1RP-5253
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	450 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	1RP-5253
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Rebecca HaskellTitle: Senior HSE CoordinatorSignature: Rebecca HaskellDate: 1/15/18email: rhaskell@concho.comTelephone: (432) 683-7443**OCD Only**

Received by: _____

Date: _____

Incident ID	
District RP	1RP-5253
Facility ID	
Application ID	

Remediation Plan

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

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table I specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Rebecca Haskell

Title: Senior HSE Coordinator

Signature: Rebecca Haskell

Date: 11/15/18

email: rhaskell@concho.com

Telephone: (432) 683-7443

OCD Only

Received by: OCD D3 Date: 3/15/19

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

Signature: Craig Smith

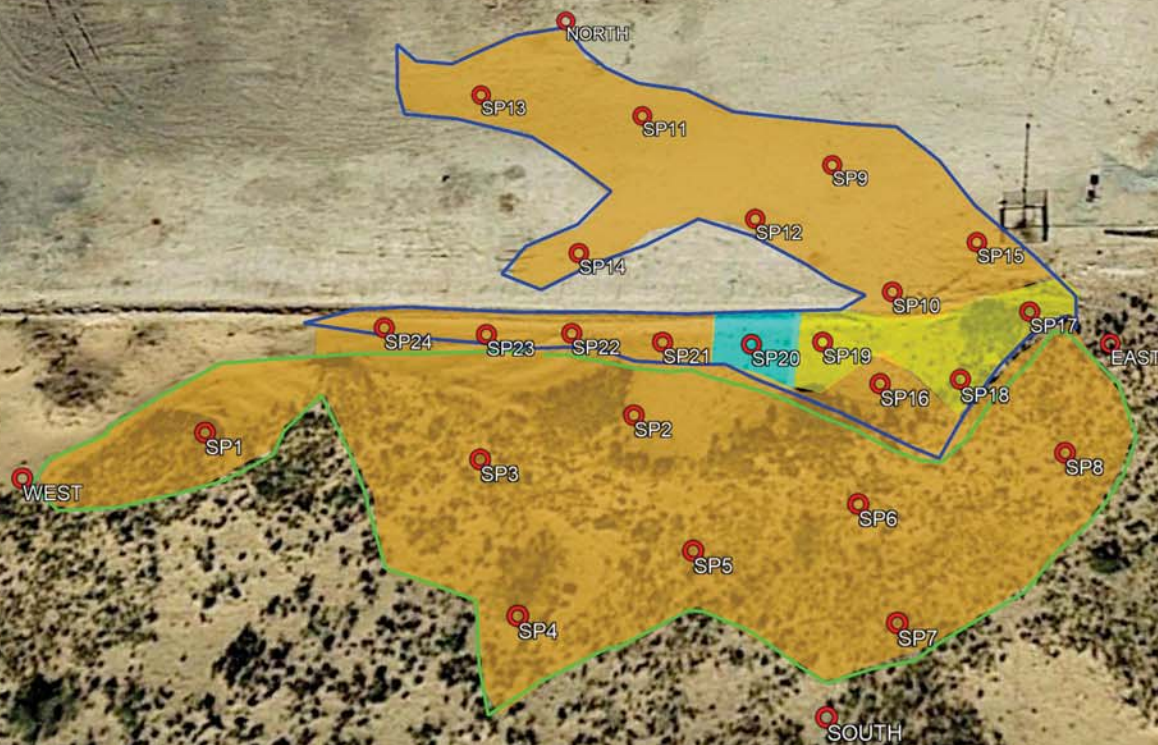
Date: 3/15/19

COG, Magnum Pronto State Com #4H

Leak date: 10/18/18
Lea County, NM
AP# 30-025-39951
1RP-5253

Legend

- 1 ft Excavation
- 2 ft Excavation
- 6 Inch Excavation
- Sample points
- Overspray Area
- Saturated Area



COG, Magnum Pronto State Com #4H

Sample points

SP1, N 32.60994 W-103.78143	NORTH, N 32.61034 W-103.78116
SP2, N 32.60996 W-103.78107	SOUTH, N 32.60973 W-103.78090
SP3, N 32.60993 W-103.78119	EAST, N 32.61003 W-103.78065
SP4, N 32.60980 W-103.78115	WEST, N 32.60991 W-103.78157
SP5, N 32.60985 W-103.78101	
SP6, N 32.60989 W-103.78087	
SP7, N 32.60980 W-103.78084	
SP8, N 32.60993 W-103.78070	
SP9, N 32.61019 W-103.78090	
SP10, N 32.61007 W-103.78084	
SP11, N 32.61024 W-103.78108	
SP12, N 32.61014 W-103.78097	
SP13, N 32.61026 W-103.78123	
SP14, N 32.61011 W-103.78112	
SP15, N 32.61012 W-103.78077	
SP16, N 32.60999 W-103.78085	
SP17, N 32.61005 W-103.78072	
SP18, N 32.60999 W-103.78078	
SP19, N 32.61002 W-103.78090	
SP20, N 32.61002 W-103.78097	
SP21, N 32.61003 W-103.78104	
SP22, N 32.61003 W-103.78112	
SP23, N 32.61003 W-103.78120	
SP24, N 32.61004 W-103.78129	



New Mexico State Land Office

Revegetation and Noxious Weed Management Plan

COG – Magnum Pronto State Com #4H

Revegetation Plan

Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season, the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful, as determined by the State Land Office. The seed will be spread by either using a hand-held broadcaster or tractor-mounted broadcaster and the area will be raked or dragged to cover the seed. If the seed will be broadcast, the pounds per acre will be double over the amount used by drill planting.

The seed mixture will be the appropriate mixture for the specific site and planted in the required amounts of pounds pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered and will not contain primary or secondary noxious weeds.

Grasses:

Sideoats grama	Vaughn, El Reno	4.0	F
Blue grama	Lovington, Hachita	3.0	D
Little bluestem	Pastura, Cimmaron	1.5	F
Green sprangletop	VNS, Southern	1.0	D
Plains bristlegrass	VNS, Southern	1.0	D

Forbs:

Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
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Shrubs:

Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F

Total PLS/acre 13.0

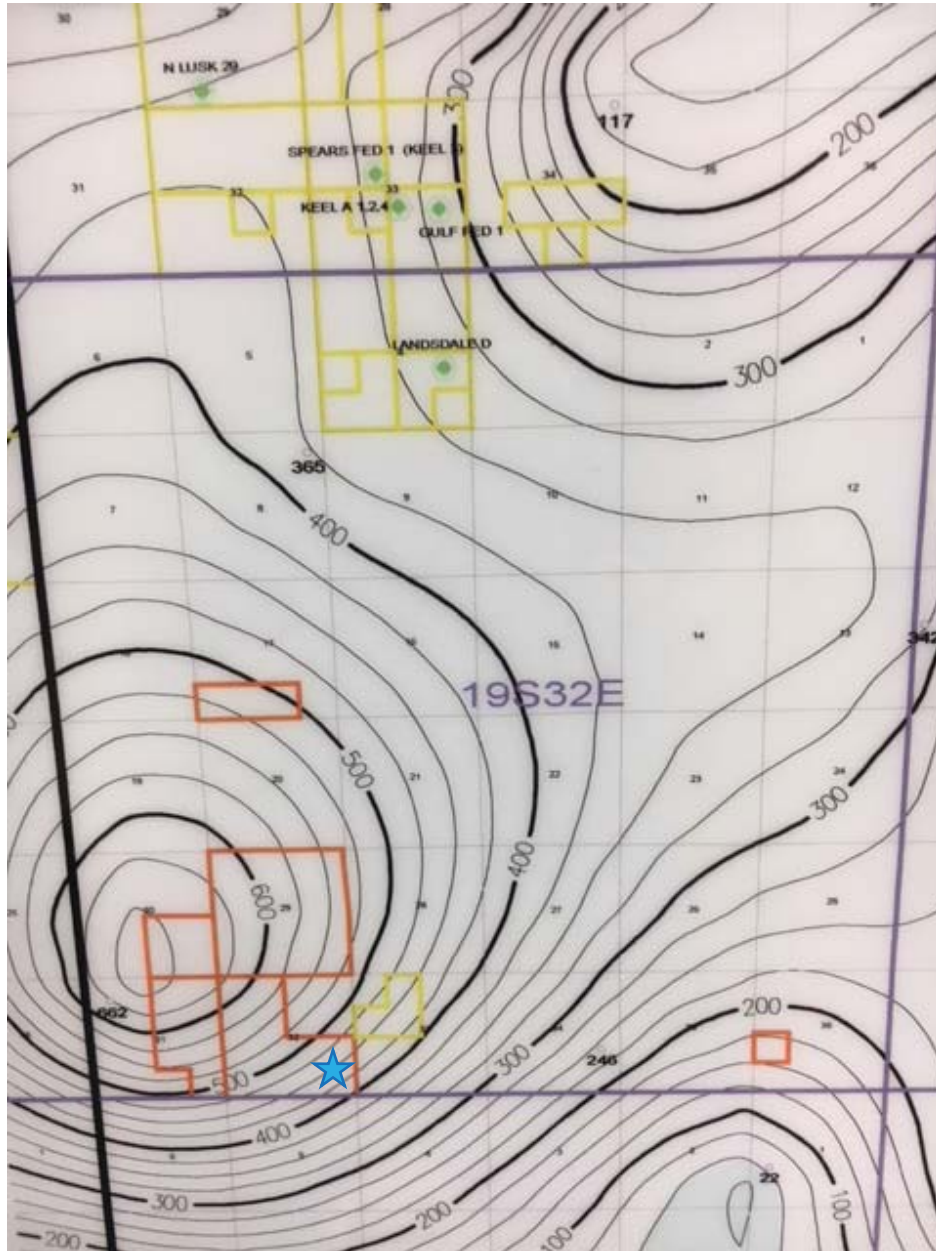
Noxious Weed Management Plan

The site will be visited to assess the establishment of vegetative growth. Personnel performing the site visit will also look for the presence of noxious weeds at the site as indicated on the New Mexico Noxious Weeds List specified on the United States Department of Agriculture website. If a noxious weed is observed at the site, the NMSLO will be contacted to determine the most effective manner to eradicate it.

COG, Magnum Pronto St Com #004H

U/L P, Section 32, T19S, R32E

Groundwater: 450'





New Mexico Office of the State Engineer **Water Column/Average Depth to Water**


No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 614282

Northing (Y): 3608864

Radius: 1700

	Time	?	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	?	USGS Home	Contact USGS	Search USGS	?
National Water Information System: Web Interface										
USGS Water Resources										
Data Category:					Geographic Area:					
Groundwater					New Mexico		GO			

Click to hide News Bulletins

- [Please see news on new formats](#)
- UPDATE, 10/31: The USGS continues to make progress on restoring all of the gages. As of noon Wednesday, October 31, approximately 6 percent of USGS streamgages are still not transmitting due to an issue with the telemetry system that records and transmits streamgage data. Read [more](#)**
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323712103491001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323712103491001 19S.32E.31.114

Lea County, New Mexico

Latitude 32°37'12", Longitude 103°49'10" NAD27

Land-surface elevation 3,497 feet above NAVD88

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1966-09			M	520.99			2			U
1967-07			M	505.13			2			U
1967-09			M	509.01			2			U
1967-11			M	512.48			2			U
1968-01			M	515.69			2			U
1968-03			M	518.52			2			U
1968-05			M	522.00			2			U
1968-07			M	526.58			2			U
1968-09			M	530.39			2			U
1968-11			M	533.84			2			U
1969-01			M	537.05			2			U
1969-03			M	541.13			2			U
1969-05			M	544.58			2			U
1969-07			M	548.44			2			U
1969-09			M	552.13			2			U
1969-11			M	554.67			2			U
1970-01			M	557.43			2			U

Date	Time	Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Water level, feet referenced below datum and surface	Water level accuracy	Water level, feet above specific vertical datum	Status	Referenced vertical datum	Water-level accuracy measuring agency	Source of measurement
1970-03			M	559.31			2			U	
1970-05			M	562.96			2			U	
1970-07			M	567.33			2			U	
1970-09			M	571.52			2			U	
1970-11			M	574.17			2			U	
1971-01			M	578.01			2			U	
1971-03			M	581.12			2			U	
1971-05			M	586.52			2			U	
1971-07			M	590.76			2			U	
1971-09			M	594.35			2			U	
1971-11			M	596.95			2			U	
1972-01			M	599.42			2			U	
1972-03			M	602.20			2			U	
1972-05			M	605.47			2			U	
1972-07			M	608.63			2			U	
1972-09			M	611.34			2			U	
1972-11			M	612.87			2			U	
1973-01			M	614.92			2			U	
1973-03			M	615.85			2			U	
1973-05			M	620.70			2			U	
1973-07			M	623.66			2			U	
1973-09			M	630.33			2			U	
1973-11			M	632.88			2			U	
1974-01			M	636.38			2			U	
1974-03			M	639.41			2			U	
1974-05			M	645.14			2			U	
1974-09			M	651.25			2			U	
1975-03-21			D	655.79			2			U	
1975-03-22			D	655.66			2			U	
1975-03-23			D	655.60			2			U	
1975-03-24			D	655.85			2			U	
1975-03-25			D	655.86			2			U	
1975-03-26			D	655.65			2			U	
1975-03-27			D	655.70			2			U	
1975-03-28			D	655.88			2			U	
1975-03-29			D	656.05			2			U	
1975-03-30			D	656.10			2			U	
1975-03-31			D	655.89			2			U	
1975-04-01			D	655.96			2			U	
1975-04-02			D	656.14			2			U	
1975-04-03			D	656.29			2			U	
1975-04-04			D	656.20			2			U	
1975-04-05			D	656.25			2			U	
1975-04-06			D	656.23			2			U	
1975-04-07			D	656.07			2			U	
1975-04-08			D	656.28			2			U	
1975-04-09			D	656.48			2			U	
1975-04-10			D	656.42			2			U	
1975-04-11			D	656.63			2			U	
1975-04-12			D	656.62			2			U	
1975-04-13			D	656.55			2			U	
1975-04-14			D	656.71			2			U	
1975-04-15			D	656.75			2			U	

Date	Time	Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Water level, feet referenced below datum and surface	Water level accuracy	Water level, feet above specific vertical datum	Status	Referenced vertical datum	Water-level accuracy measuring agency	Source of measurement
1975-04-16			D 656.70				2			U	
1975-04-17			D 656.58				2			U	
1975-04-18			D 656.62				2			U	
1975-04-19			D 656.93				2			U	
1975-04-20			D 656.96				2			U	
1975-04-21			D 657.05				2			U	
1975-04-22			D 657.03				2			U	
1975-04-23			D 657.02				2			U	
1975-04-24			D 657.04				2			U	
1975-04-25			D 657.06				2			U	
1975-04-26			D 657.02				2			U	
1975-04-27			D 657.03				2			U	
1975-04-28			D 657.17				2			U	
1975-04-29			D 657.12				2			U	
1975-04-30			D 657.32				2			U	
1975-05-01			D 657.41				2			U	
1975-05-02			D 657.41				2			U	
1975-05-03			D 657.51				2			U	
1975-05-04			D 657.46				2			U	
1975-05-05			D 657.42				2			U	
1975-05-06			D 657.53				2			U	
1975-05-07			D 657.59				2			U	
1975-05-08			D 657.70				2			U	
1975-05-09			D 657.81				2			U	
1975-05-10			D 657.88				2			U	
1975-05-11			D 657.87				2			U	
1975-05-12			D 657.82				2			U	
1975-05-13			D 657.82				2			U	
1975-05-14			D 657.97				2			U	
1975-05-15			D 658.03				2			U	
1975-05-16			D 658.02				2			U	
1975-05-17			D 658.10				2			U	
1975-05-18			D 658.18				2			U	
1975-05-19			D 658.17				2			U	
1975-05-20			D 658.10				2			U	
1975-05-21			D 658.22				2			U	
1975-05-22			D 658.23				2			U	
1975-05-23			D 658.42				2			U	
1975-05-24			D 658.44				2			U	
1975-05-25			D 658.45				2			U	
1975-05-26			D 658.63				2			U	
1975-05-27			D 658.60				2			U	
1975-05-28			D 658.47				2			U	
1975-05-29			D 658.55				2			U	
1975-05-30			D 658.76				2			U	
1975-05-31			D 658.77				2			U	
1975-06-01			D 658.83				2			U	
1975-06-02			D 658.93				2			U	
1975-06-03			D 658.88				2			U	
1975-06-04			D 658.89				2			U	
1975-06-05			D 659.00				2			U	
1975-06-06			D 659.10				2			U	
1975-06-07			D 659.13				2			U	

Date	Time	Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Water level, feet referenced below datum and surface	Water level accuracy	Water level, feet above specific vertical datum	Status	Referenced vertical datum	Measuring agency	Source of measurement
1975-06-08			D 659.16				2			U	
1975-06-09			D 659.21				2			U	
1975-06-10			D 659.35				2			U	
1975-06-11			D 659.50				2			U	
1975-06-13			D 659.53				2			U	
1975-06-14			D 659.52				2			U	
1975-06-15			D 659.61				2			U	
1975-06-16			D 659.57				2			U	
1975-06-17			D 659.61				2			U	
1975-06-18			D 659.67				2			U	
1975-06-19			D 659.87				2			U	
1975-06-20			D 659.97				2			U	
1975-06-21			D 660.01				2			U	
1975-06-22			D 660.09				2			U	
1975-06-23			D 660.22				2			U	
1975-06-24			D 660.32				2			U	
1975-06-25			D 660.28				2			U	
1975-06-26			D 660.28				2			U	
1975-06-27			D 660.36				2			U	
1975-06-28			D 660.42				2			U	
1975-06-29			D 660.53				2			U	
1975-06-30			D 660.65				2			U	
1975-07-01			D 660.73				2			U	
1975-07-02			D 660.82				2			U	
1975-07-03			D 660.88				2			U	
1975-07-04			D 660.95				2			U	
1975-07-05			D 660.94				2			U	
1975-07-06			D 660.93				2			U	
1975-07-07			D 661.02				2			U	
1975-07-08			D 661.13				2			U	
1975-07-09			D 661.15				2			U	
1975-07-10			D 661.16				2			U	
1975-07-11			D 661.21				2			U	
1975-07-12			D 661.22				2			U	
1975-07-13			D 661.29				2			U	
1975-07-14			D 661.34				2			U	
1975-07-15			D 661.45				2			U	
1975-07-16			D 661.51				2			U	
1975-07-17			D 661.56				2			U	

Explanation

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

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News		?	Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	?	Water-level accuracy	?
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

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

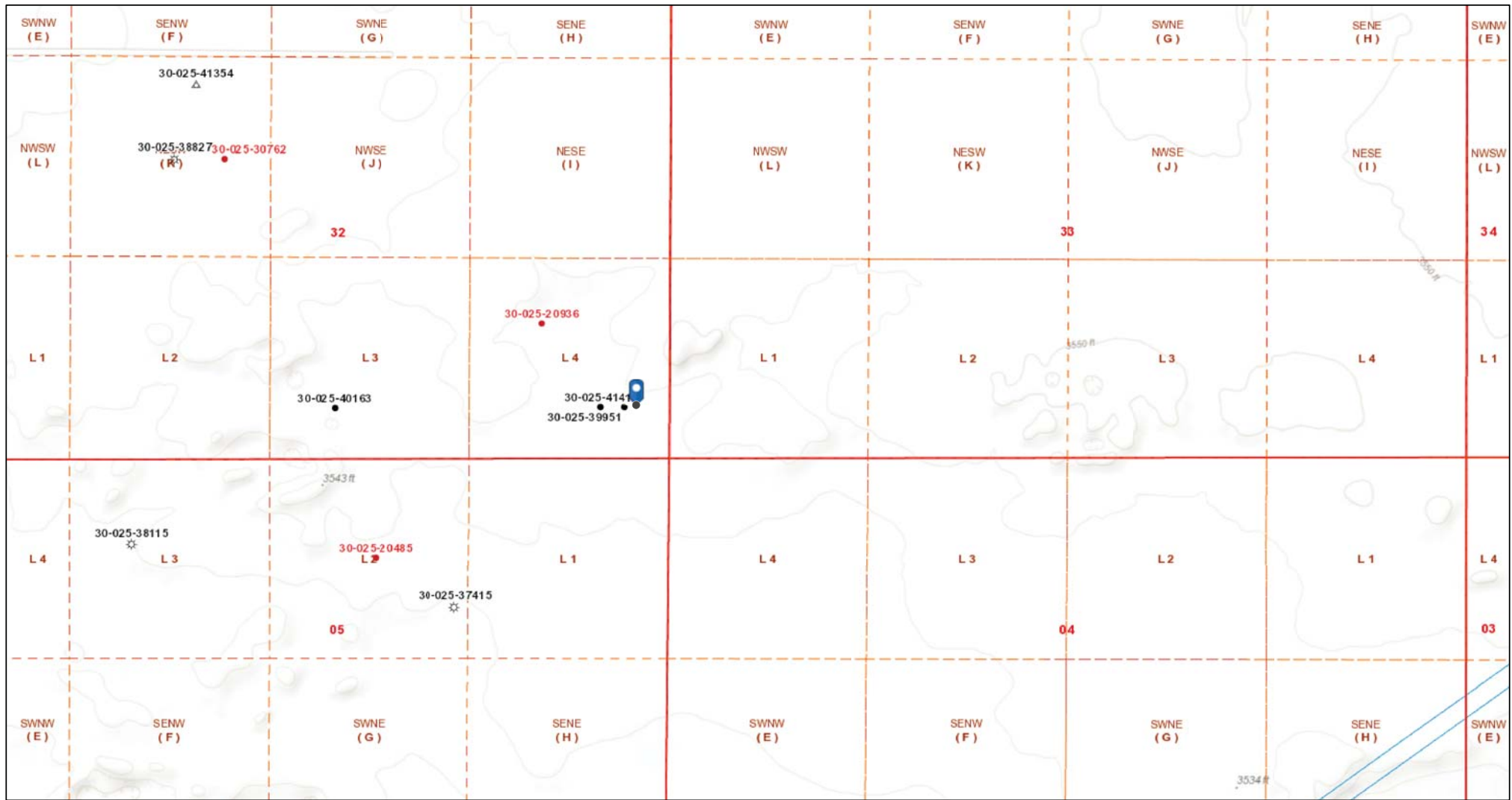


Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-11-02 13:52:45 EDT

0.53 0.44 nadww01

Magnum Pronto State Com #004H, TOPO map w/ water features



11/2/2018 11:54:45 AM

Well Locations - Small Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned

Well Locations - Large Scale

- Miscellaneous
- CO2 Active
- CO2 Cancelled
- CO2 New
- CO2 Plugged
- CO2 Temporarily Abandoned

Gas Active

- Gas, Cancelled, Never Drilled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active

Injection, Cancelled

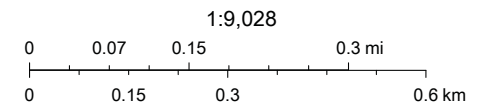
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled

Oil, New

- Oil, Plugged
- Oil, Temporarily Abandoned
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- Salt Water Injection, New

Salt Water Injection, Plugged

- Salt Water Injection Temporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New
- Water, Plugged





Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, OCD, BLM


COG, Magnum Pronto State Com #004H

Leak date: 10/18/18
Lea County, NM
AP# 30-025-39951

BLM CAVE KARST MAP

Legend

-  LOW potential
-  Magnum Pronto State Com #004H

 Magnum Pronto State Com #004H

243

Google Earth

© 2018 Google

W Carlsbad Hwy 2
2 mi
176
N

National Flood Hazard Layer FIRMette



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/2/2018 at 1:56:19 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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32°36'53.24"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

32°36'22.94"N

103°46'31.29"W

Laboratory Analytical Results Summary
Magnum Pronto State Com #4H (10/18/18)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	10/26/18	10/26/18	10/26/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.247	0.078	n/a
Ethylbenzene	BTEX 8021B		0.117	<0.050	n/a
Total Xylenes	BTEX 8021B		0.257	<0.150	n/a
Total BTEX	BTEX 8021B		0.622	<0.300	n/a
Chloride	SM4500Cl-B		128	64	48
GRO	TPH 8015M		<50.0	<10.0	n/a
DRO	TPH 8015M		2830	826	n/a
EXT DRO	TPH 8015M		669	197	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	10/26/18	10/26/18	10/26/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.188	0.06	n/a
Ethylbenzene	BTEX 8021B		0.081	<0.050	n/a
Total Xylenes	BTEX 8021B		0.177	<0.150	n/a
Total BTEX	BTEX 8021B		0.446	<0.300	n/a
Chloride	SM4500Cl-B		112	48	80
GRO	TPH 8015M		<50.0	<10.0	n/a
DRO	TPH 8015M		2660	812	n/a
EXT DRO	TPH 8015M		617	206	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	10/26/18	10/26/18	10/26/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.27	0.059	n/a
Ethylbenzene	BTEX 8021B		0.118	<0.050	n/a
Total Xylenes	BTEX 8021B		0.259	<0.150	n/a
Total BTEX	BTEX 8021B		0.647	<0.300	n/a
Chloride	SM4500Cl-B		144	64	16
GRO	TPH 8015M		<50.0	<10.0	n/a
DRO	TPH 8015M		2710	744	n/a
EXT DRO	TPH 8015M		574	190	n/a

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	10/26/18	10/26/18	10/26/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		16	48	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		15.5	31.3	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	10/26/18	10/26/18	10/26/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.058	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		48	16	64
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		808	<10.0	n/a
EXT DRO	TPH 8015M		188	<10.0	n/a

		Sample ID	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	10/26/18	10/26/18	10/26/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.315	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.134	<0.050	n/a
Total Xylenes	BTEX 8021B		0.326	<0.150	n/a
Total BTEX	BTEX 8021B		0.775	<0.300	n/a
Chloride	SM4500Cl-B		384	16	64
GRO	TPH 8015M		58	<10.0	n/a
DRO	TPH 8015M		10000	24.6	n/a
EXT DRO	TPH 8015M		1630	21.2	n/a

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'
Analyte	Method	Date	10/26/18	10/26/18	10/26/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.236	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.114	<0.050	n/a
Total Xylenes	BTEX 8021B		0.304	<0.150	n/a
Total BTEX	BTEX 8021B		0.655	<0.300	n/a
Chloride	SM4500Cl-B		320	32	48
GRO	TPH 8015M		50.8	<10.0	n/a
DRO	TPH 8015M		11000	24	n/a
EXT DRO	TPH 8015M		1890	21.4	n/a

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	10/26/18	10/26/18	10/26/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.072	<0.050	n/a
Toluene	BTEX 8021B		0.407	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.15	<0.050	n/a
Total Xylenes	BTEX 8021B		0.359	<0.150	n/a
Total BTEX	BTEX 8021B		0.988	<0.300	n/a
Chloride	SM4500Cl-B		352	48	32
GRO	TPH 8015M		54.8	<10.0	n/a
DRO	TPH 8015M		11300	25.4	n/a
EXT DRO	TPH 8015M		1970	19	n/a

Laboratory Analytical Results Summary
Magnum Pronto State Com #4H (10/18/18)

		Sample ID	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	10/30/18	10/30/18	10/30/18	10/30/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.09	<0.050	<0.050	n/a
Toluene	BTEX 8021B		1.84	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		2.62	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		6.4	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		11	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		896	176	64	48
GRO	TPH 8015M		131	<10.0	<10.0	n/a
DRO	TPH 8015M		6110	86.6	11.3	n/a
EXT DRO	TPH 8015M		1130	34.7	<10.0	n/a

		Sample ID	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'
Analyte	Method	Date	10/30/18	10/30/18	10/30/18	10/30/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.101	<0.050	<0.050	n/a
Toluene	BTEX 8021B		1.88	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		2.65	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		5.88	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		10.5	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		848	112	32	48
GRO	TPH 8015M		161	<10.0	<10.0	n/a
DRO	TPH 8015M		6810	39.2	<10.0	n/a
EXT DRO	TPH 8015M		1100	33.9	<10.0	n/a

		Sample ID	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 2'	SP11 @ 3'
Analyte	Method	Date	10/30/18	10/30/18	10/30/18	10/30/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.615	0.058	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.659	0.053	<0.050	n/a
Total Xylenes	BTEX 8021B		1.83	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		3.1	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		1060	128	32	<16.0
GRO	TPH 8015M		69.5	<10.0	<10.0	n/a
DRO	TPH 8015M		10900	56.5	<10.0	n/a
EXT DRO	TPH 8015M		1560	35.1	<10.0	n/a

		Sample ID	SP12 @ SURFACE	SP12 @ 1'	SP12 @ 2'	SP12 @ 3'
Analyte	Method	Date	10/30/18	10/30/18	10/30/18	10/30/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.496	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.546	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		1.53	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		2.57	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		1060	80	<16.0	48
GRO	TPH 8015M		73.6	<10.0	<10.0	n/a
DRO	TPH 8015M		11000	44.9	<10.0	n/a
EXT DRO	TPH 8015M		2470	35.8	<10.0	n/a

		Sample ID	SP13 @ SURFACE	SP13 @ 1'	SP13 @ 2'	SP13 @ 3'
Analyte	Method	Date	10/30/18	10/30/18	10/30/18	10/30/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.576	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.638	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		1.9	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		3.12	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		1060	112	32	32
GRO	TPH 8015M		72.7	<10.0	<10.0	n/a
DRO	TPH 8015M		9970	17.7	<10.0	n/a
EXT DRO	TPH 8015M		1480	<10.0	<10.0	n/a

		Sample ID	SP14 @ SURFACE	SP14 @ 1'	S14 @ 2'
Analyte	Method	Date	10/30/18	10/30/18	10/30/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.056	<0.050	n/a
Toluene	BTEX 8021B		0.746	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.865	0.051	n/a
Total Xylenes	BTEX 8021B		2.33	<0.150	n/a
Total BTEX	BTEX 8021B		3.99	<0.300	n/a
Chloride	SM4500Cl-B		992	176	<16.0
GRO	TPH 8015M		80.1	11.3	n/a
DRO	TPH 8015M		11400	571	n/a
EXT DRO	TPH 8015M		2820	112	n/a

		Sample ID	SP15 @ SURFACE	SP15 @ 1'	SP15 @ 2'	SP15 @ 3'
Analyte	Method	Date	10/30/18	10/30/18	10/30/18	10/30/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.202	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.104	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.312	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		0.617	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		848	32	<16.0	32
GRO	TPH 8015M		<50.0	<10.0	<10.0	n/a
DRO	TPH 8015M		12000	260	17.2	n/a
EXT DRO	TPH 8015M		3360	50.6	<10.0	n/a

		Sample ID	SP16 @ SURFACE	SP16 @ 1'	SP16 @ 2'	SP16 @ 3'	SP16 @ 4'
Analyte	Method	Date	10/30/18	10/30/18	10/30/18	10/30/18	10/30/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		1.04	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		11.7	<0.050	0.12	<0.050	n/a
Ethylbenzene	BTEX 8021B		12.8	<0.050	0.287	<0.050	n/a
Total Xylenes	BTEX 8021B		35.2	<0.150	0.945	<0.150	n/a
Total BTEX	BTEX 8021B		60.8	<0.300	1.35	<0.300	n/a
Chloride	SM4500Cl-B		1090	96	128	96	<16.0
GRO	TPH 8015M		980	<10.0	11.5	<10.0	n/a
DRO	TPH 8015M		48800	165	296	73.4	n/a
EXT DRO	TPH 8015M		11000	40.7	47.1	10.2	n/a

Laboratory Analytical Results Summary
Magnum Pronto State Com #4H (10/18/18)

		Sample ID	SP17 @ SURFACE	SP17 @ 1'	SP17 @ 2'	SP17 @ 3'	SP17 @ 4'
Analyte	Method	Date	10/30/18	10/30/18	10/31/18	10/31/18	10/31/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.869	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		24.9	<0.050	0.119	<0.050	n/a
Ethylbenzene	BTEX 8021B		21.2	<0.050	0.19	<0.050	n/a
Total Xylenes	BTEX 8021B		52.7	<0.150	0.465	<0.150	n/a
Total BTEX	BTEX 8021B		99.7	<0.300	0.783	<0.300	n/a
Chloride	SM4500Cl-B		720	80	80	32	48
GRO	TPH 8015M		1440	<10.0	22.4	<10.0	n/a
DRO	TPH 8015M		29700	102	1010	11.2	n/a
EXT DRO	TPH 8015M		6000	29.3	184	<10.0	n/a

		Sample ID	SP18 @ SURFACE	SP18 @ 1'	SP18 @ 2'	SP18 @ 3'	SP18 @ 4'
Analyte	Method	Date	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		11.5	0.217	<0.050	<0.050	n/a
Toluene	BTEX 8021B		102	4.52	0.344	<0.050	n/a
Ethylbenzene	BTEX 8021B		66.2	4.35	0.505	<0.050	n/a
Total Xylenes	BTEX 8021B		153	10.1	1.24	<0.150	n/a
Total BTEX	BTEX 8021B		333	19.2	2.09	<0.300	n/a
Chloride	SM4500Cl-B		624	176	80	32	48
GRO	TPH 8015M		4230	321	35.6	<10.0	n/a
DRO	TPH 8015M		42900	4390	1380	18.6	n/a
EXT DRO	TPH 8015M		8660	827	246	<10.0	n/a

		Sample ID	SP19 @ SURFACE	SP19 @ 1'	SP19 @ 2'	SP19 @ 3'	SP19 @ 4'
Analyte	Method	Date	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		4.37	<0.200	<0.100	<0.050	n/a
Toluene	BTEX 8021B		67.4	2.86	2.35	<0.050	n/a
Ethylbenzene	BTEX 8021B		65.6	3.3	3.1	<0.050	n/a
Total Xylenes	BTEX 8021B		160	8.42	7.6	<0.150	n/a
Total BTEX	BTEX 8021B		298	14.6	13.1	<0.300	n/a
Chloride	SM4500Cl-B		160	80	112	48	64
GRO	TPH 8015M		3970	409	182	<10.0	n/a
DRO	TPH 8015M		35400	6650	2970	19.3	n/a
EXT DRO	TPH 8015M		6160	872	457	18.1	n/a

		Sample ID	SP20 @ SURFACE	SP20 @ 1'	SP20 @ 2'	SP20 @ 3'	SP20 @ 4'
Analyte	Method	Date	10/31/18	10/31/18	10/31/18	10/31/18	10/31/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		3.4	0.065	<0.050	<0.050	n/a
Toluene	BTEX 8021B		46.9	1.73	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		44.2	2.61	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		96.3	6.2	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		191	10.6	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		272	96	32	32	32
GRO	TPH 8015M		2370	204	<10.0	<10.0	n/a
DRO	TPH 8015M		38100	3890	11.3	<10.0	n/a
EXT DRO	TPH 8015M		5900	696	<10.0	<10.0	n/a

		Sample ID	SP21 @ SURFACE	SP21 @ 1'	SP21 @ 2'
Analyte	Method	Date	10/31/18	10/31/18	10/31/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.426	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.392	<0.050	n/a
Total Xylenes	BTEX 8021B		0.988	<0.150	n/a
Total BTEX	BTEX 8021B		1.81	<0.300	n/a
Chloride	SM4500Cl-B		128	16	32
GRO	TPH 8015M		14.6	<10.0	n/a
DRO	TPH 8015M		1190	11.1	n/a
EXT DRO	TPH 8015M		287	10.9	n/a

		Sample ID	SP22 @ SURFACE	SP22 @ 1'	SP22 @ 2'
Analyte	Method	Date	10/31/18	10/31/18	10/31/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.103	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.148	<0.050	n/a
Total Xylenes	BTEX 8021B		0.388	<0.150	n/a
Total BTEX	BTEX 8021B		0.64	<0.300	n/a
Chloride	SM4500Cl-B		32	32	32
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		86.2	<10.0	n/a
EXT DRO	TPH 8015M		22.7	<10.0	n/a

		Sample ID	SP23 @ SURFACE	SP23 @ 1'	SP23 @ 2'
Analyte	Method	Date	10/31/18	10/31/18	10/31/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.052	<0.050	n/a
Toluene	BTEX 8021B		0.943	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.577	<0.050	n/a
Total Xylenes	BTEX 8021B		1.21	<0.150	n/a
Total BTEX	BTEX 8021B		2.79	<0.300	n/a
Chloride	SM4500Cl-B		80	16	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		1720	18.5	n/a
EXT DRO	TPH 8015M		304	16.5	n/a

		Sample ID	SP24 @ SURFACE	SP24 @ 1'	SP24 @ 2'
Analyte	Method	Date	10/31/18	10/31/18	10/31/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		0.072	<0.050	n/a
Toluene	BTEX 8021B		1.13	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.568	<0.050	n/a
Total Xylenes	BTEX 8021B		1.17	<0.150	n/a
Total BTEX	BTEX 8021B		2.94	<0.300	n/a
Chloride	SM4500Cl-B		144	32	<16.0
GRO	TPH 8015M		<50.0	<10.0	n/a
DRO	TPH 8015M		5360	12.2	n/a
EXT DRO	TPH 8015M		968	11.8	n/a

Laboratory Analytical Results Summary
Magnum Pronto State Com #4H (10/18/18)

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	10/31/18	10/31/18	10/31/18	10/31/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32	<16.0	16	16
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	12.9
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

November 12, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MAGNUM PRONTO STATE COM #4H

Enclosed are the results of analyses for samples received by the laboratory on 11/06/18 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 1 @ SURFACE (H803189-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2018	ND	2.04	102	2.00	1.76	
Toluene*	0.247	0.050	11/07/2018	ND	2.10	105	2.00	2.84	
Ethylbenzene*	0.117	0.050	11/07/2018	ND	2.09	104	2.00	3.24	
Total Xylenes*	0.257	0.150	11/07/2018	ND	6.18	103	6.00	3.45	
Total BTX	0.622	0.300	11/07/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/08/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	11/07/2018	ND	183	91.3	200	5.50		
DRO >C10-C28*	2830	50.0	11/07/2018	ND	200	100	200	5.45		
EXT DRO >C28-C36	669	50.0	11/07/2018	ND						

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 230 % 37.6-147

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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:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 1 @ 1' (H803189-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	2.04	102	2.00	1.76	
Toluene*	0.078	0.050	11/08/2018	ND	2.10	105	2.00	2.84	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	2.09	104	2.00	3.24	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	6.18	103	6.00	3.45	
Total BTEx	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/08/2018	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	11/07/2018	ND	183	91.3	200	5.50	
DRO >C10-C28*	826	10.0	11/07/2018	ND	200	100	200	5.45	
EXT DRO >C28-C36	197	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 130 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 1 @ 2' (H803189-03)

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	11/08/2018	ND	432	108	400	0.00		

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 2 @ SURFACE (H803189-04)

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	11/08/2018	ND	2.04	102	2.00	1.76	
Toluene*	0.188	0.050	11/08/2018	ND	2.10	105	2.00	2.84	
Ethylbenzene*	0.081	0.050	11/08/2018	ND	2.09	104	2.00	3.24	
Total Xylenes*	0.177	0.150	11/08/2018	ND	6.18	103	6.00	3.45	
Total BTEX	0.446	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/08/2018	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane		88.3 %	41-142							
Surrogate: 1-Chlorooctadecane		228 %	37.6-147							

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 2 @ 1' (H803189-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	2.04	102	2.00	1.76	
Toluene*	0.060	0.050	11/08/2018	ND	2.10	105	2.00	2.84	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	2.09	104	2.00	3.24	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	6.18	103	6.00	3.45	
Total BTEx	<0.300	0.300	11/08/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/08/2018	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	11/07/2018	ND	183	91.3	200	5.50	
DRO >C10-C28*	812	10.0	11/07/2018	ND	200	100	200	5.45	
EXT DRO >C28-C36	206	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 144 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 2 @ 2' (H803189-06)

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	11/08/2018	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:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 3 @ SURFACE (H803189-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	2.04	102	2.00	1.76	
Toluene*	0.270	0.050	11/08/2018	ND	2.10	105	2.00	2.84	
Ethylbenzene*	0.118	0.050	11/08/2018	ND	2.09	104	2.00	3.24	
Total Xylenes*	0.259	0.150	11/08/2018	ND	6.18	103	6.00	3.45	
Total BTX	0.647	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/08/2018	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 233 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 3 @ 1' (H803189-08)

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	11/08/2018	ND	2.04	102	2.00	1.76	
Toluene*	0.059	0.050	11/08/2018	ND	2.10	105	2.00	2.84	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	2.09	104	2.00	3.24	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	6.18	103	6.00	3.45	
Total BTEx	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/08/2018	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	11/07/2018	ND	183	91.3	200	5.50	
DRO >C10-C28*	744	10.0	11/07/2018	ND	200	100	200	5.45	
EXT DRO >C28-C36	190	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 92.8 % 41-142

Surrogate: 1-Chlorooctadecane 131 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 3 @ 2' (H803189-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2018	ND	432	108	400	0.00		

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Hobbs NM, 88241
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Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 4 @ SURFACE (H803189-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	2.04	102	2.00	1.76	
Toluene*	<0.050	0.050	11/08/2018	ND	2.10	105	2.00	2.84	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	2.09	104	2.00	3.24	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	6.18	103	6.00	3.45	
Total BTEx	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/08/2018	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	11/07/2018	ND	183	91.3	200	5.50	
DRO >C10-C28*	15.5	10.0	11/07/2018	ND	200	100	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 89.6 % 41-142

Surrogate: 1-Chlorooctadecane 93.6 % 37.6-147

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Fax To: (575) 397-0397

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 4 @ 1' (H803189-11)

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	11/08/2018	ND	2.04	102	2.00	1.76	
Toluene*	<0.050	0.050	11/08/2018	ND	2.10	105	2.00	2.84	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	2.09	104	2.00	3.24	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	6.18	103	6.00	3.45	
Total BTEx	<0.300	0.300	11/08/2018	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/08/2018	ND	432	108	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	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	31.3	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 93.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.6 % 37.6-147

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
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Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 4 @ 2' (H803189-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2018	ND	432	108	400	3.77		

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 5 @ SURFACE (H803189-13)

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	11/08/2018	ND	2.04	102	2.00	1.76		
Toluene*	0.058	0.050	11/08/2018	ND	2.10	105	2.00	2.84		
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	2.09	104	2.00	3.24		
Total Xylenes*	<0.150	0.150	11/08/2018	ND	6.18	103	6.00	3.45		
Total BTEx	<0.300	0.300	11/08/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/08/2018	ND	432	108	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	11/08/2018	ND	176	88.0	200	9.72	
DRO >C10-C28*	808	10.0	11/08/2018	ND	192	96.1	200	11.5	
EXT DRO >C28-C36	188	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 98.3 % 41-142

Surrogate: 1-Chlorooctadecane 140 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 5 @ 1' (H803189-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	2.04	102	2.00	1.76	
Toluene*	<0.050	0.050	11/08/2018	ND	2.10	105	2.00	2.84	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	2.09	104	2.00	3.24	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	6.18	103	6.00	3.45	
Total BTX	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/08/2018	ND	432	108	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	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	<10.0	10.0	11/07/2018	ND	191	95.5	200	11.9	QR-03
EXT DRO >C28-C36	<10.0	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 92.0 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 5 @ 2' (H803189-15)

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	11/08/2018	ND	432	108	400	3.77		

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 6 @ SURFACE (H803189-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	2.04	102	2.00	1.76	
Toluene*	0.315	0.050	11/08/2018	ND	2.10	105	2.00	2.84	
Ethylbenzene*	0.134	0.050	11/08/2018	ND	2.09	104	2.00	3.24	
Total Xylenes*	0.326	0.150	11/08/2018	ND	6.18	103	6.00	3.45	
Total BTEX	0.775	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/08/2018	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	58.0	50.0	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	10000	50.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	1630	50.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 129 % 41-142

Surrogate: 1-Chlorooctadecane 236 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 6 @ 1' (H803189-17)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	2.04	102	2.00	1.76	
Toluene*	<0.050	0.050	11/08/2018	ND	2.10	105	2.00	2.84	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	2.09	104	2.00	3.24	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	6.18	103	6.00	3.45	
Total BTEx	<0.300	0.300	11/08/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/08/2018	ND	432	108	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	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	24.6	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	21.2	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 98.4 % 37.6-147

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
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Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 6 @ 2' (H803189-18)

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	11/08/2018	ND	432	108	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:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 7 @ SURFACE (H803189-19)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2018	ND	2.11	106	2.00	1.24	
Toluene*	0.236	0.050	11/07/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	0.114	0.050	11/07/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	0.304	0.150	11/07/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	0.655	0.300	11/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	11/08/2018	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

Surrogate: 1-Chlorooctane 131 % 41-142

Surrogate: 1-Chlorooctadecane 252 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 7 @ 1' (H803189-20)

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	11/07/2018	ND	2.11	106	2.00	1.24	
Toluene*	<0.050	0.050	11/07/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	<0.050	0.050	11/07/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	<0.150	0.150	11/07/2018	ND	5.91	98.5	6.00	1.54	
Total BTEx	<0.300	0.300	11/07/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2018	ND	432	108	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	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	24.0	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	21.4	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 95.5 % 37.6-147

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Cliff Brunson
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Fax To: (575) 397-0397

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 7 @ 2' (H803189-21)

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	11/08/2018	ND	432	108	400	3.77		

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 8 @ SURFACE (H803189-22)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.072	0.050	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	0.407	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	0.150	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	0.359	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	0.988	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/08/2018	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	54.8	50.0	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	11300	50.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	1970	50.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 133 % 41-142

Surrogate: 1-Chlorooctadecane 259 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 8 @ 1' (H803189-23)

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	11/08/2018	ND	2.11	106	2.00	1.24		
Toluene*	<0.050	0.050	11/08/2018	ND	2.00	100	2.00	2.10		
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83		
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54		
Total BTEX	<0.300	0.300	11/08/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/08/2018	ND	432	108	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	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	25.4	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	19.0	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/26/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 8 @ 2' (H803189-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2018	ND	432	108	400	3.77		

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 9 @ SURFACE (H803189-25)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.090	0.050	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	1.84	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	2.62	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	6.40	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	11.0	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	11/08/2018	ND	432	108	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	131	20.0	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	6110	20.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	1130	20.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 171 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 9 @ 1' (H803189-26)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	<0.050	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/08/2018	ND	432	108	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	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	86.6	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	34.7	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.0 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 9 @ 2' (H803189-27)

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	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	<0.050	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/08/2018	ND	432	108	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	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	11.3	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 97.9 % 41-142

Surrogate: 1-Chlorooctadecane 90.7 % 37.6-147

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Cliff Brunson
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Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 9 @ 3' (H803189-28)

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	11/08/2018	ND	432	108	400	3.77		

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 10 @ SURFACE (H803189-29)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.101	0.050	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	1.88	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	2.65	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	5.88	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTX	10.5	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 134 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	11/08/2018	ND	432	108	400	3.77	
TPH 8015M									S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	161	10.0	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	6810	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	1100	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 123 % 41-142

Surrogate: 1-Chlorooctadecane 231 % 37.6-147

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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:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 10 @ 1' (H803189-30)

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	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	<0.050	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/08/2018	ND	432	108	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	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	39.2	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	33.9	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 10 @ 2' (H803189-31)

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	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	<0.050	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	<10.0	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 99.1 % 41-142

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 10 @ 3' (H803189-32)

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	11/08/2018	ND	416	104	400	3.92		

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 11 @ SURFACE (H803189-33)

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	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	0.615	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	0.659	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	1.83	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	3.10	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	11/08/2018	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-04					

Surrogate: 1-Chlorooctane 104 % 41-142

Surrogate: 1-Chlorooctadecane 407 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 11 @ 1' (H803189-34)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	0.058	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	0.053	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTX	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/08/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	56.5	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	35.1	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 99.3 % 41-142

Surrogate: 1-Chlorooctadecane 92.7 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 11 @ 2' (H803189-35)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	<0.050	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	<10.0	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 98.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.6 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 11 @ 3' (H803189-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/08/2018	ND	416	104	400	3.92		

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 12 @ SURFACE (H803189-37)

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	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	0.496	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	0.546	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	1.53	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	2.57	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	11/08/2018	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	73.6	50.0	11/08/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	11000	50.0	11/08/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	2470	50.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 111 % 41-142

Surrogate: 1-Chlorooctadecane 334 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 12 @ 1' (H803189-38)

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	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	<0.050	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	<0.300	0.300	11/08/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/08/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	44.9	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	35.8	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 94.9 % 41-142

Surrogate: 1-Chlorooctadecane 90.9 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 12 @ 2' (H803189-39)

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	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	<0.050	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	<0.300	0.300	11/08/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/08/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2018	ND	193	96.6	200	8.48	
DRO >C10-C28*	<10.0	10.0	11/07/2018	ND	191	95.5	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

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Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 12 @ 3' (H803189-40)

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	11/08/2018	ND	416	104	400	3.92		

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 13 @ SURFACE (H803189-41)

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	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	0.576	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	0.638	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	1.90	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	3.12	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	11/08/2018	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-04					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 370 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 13 @ 1' (H803189-42)

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	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	<0.050	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/08/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	17.7	10.0	11/07/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	<10.0	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 82.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 13 @ 2' (H803189-43)

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	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	<0.050	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	<10.0	10.0	11/07/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	<10.0	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 89.2 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 13 @ 3' (H803189-44)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2018	ND	416	104	400	3.92		

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 14 @ SURFACE (H803189-45)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.056	0.050	11/08/2018	ND	2.11	106	2.00	1.24	
Toluene*	0.746	0.050	11/08/2018	ND	2.00	100	2.00	2.10	
Ethylbenzene*	0.865	0.050	11/08/2018	ND	1.84	92.1	2.00	1.83	
Total Xylenes*	2.33	0.150	11/08/2018	ND	5.91	98.5	6.00	1.54	
Total BTEX	3.99	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	11/08/2018	ND	416	104	400	3.92	
TPH 8015M									S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	80.1	50.0	11/07/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	11400	50.0	11/07/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	2820	50.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 555 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 14 @ 1' (H803189-46)

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	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	<0.050	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	0.051	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTEX	<0.300	0.300	11/08/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/08/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.3	10.0	11/07/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	571	10.0	11/07/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	112	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 85.6 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 14 @ 2' (H803189-47)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/08/2018	ND	416	104	400	3.92		

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Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 15 @ SURFACE (H803189-48)

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	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	0.202	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	0.104	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	0.312	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTEX	0.617	0.300	11/08/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	11/08/2018	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

Surrogate: 1-Chlorooctane 77.3 % 41-142

Surrogate: 1-Chlorooctadecane 574 % 37.6-147

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Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 15 @ 1' (H803189-49)

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	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	<0.050	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTEX	<0.300	0.300	11/08/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2018	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	260	10.0	11/07/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	50.6	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 80.7 % 41-142

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

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Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 15 @ 2' (H803189-50)

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	11/08/2018	ND	1.72	85.8	2.00	1.60		
Toluene*	<0.050	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02		
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900		
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07		
Total BTEX	<0.300	0.300	11/08/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/08/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	17.2	10.0	11/07/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	<10.0	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 86.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.2 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 15 @ 3' (H803189-51)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00		

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 16 @ SURFACE (H803189-52)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	1.04	0.500	11/08/2018	ND	1.72	85.8	2.00	1.60		
Toluene*	11.7	0.500	11/08/2018	ND	1.63	81.4	2.00	3.02		
Ethylbenzene*	12.8	0.500	11/08/2018	ND	1.58	79.0	2.00	0.900		
Total Xylenes*	35.2	1.50	11/08/2018	ND	4.97	82.9	6.00	1.07		
Total BTEX	60.8	3.00	11/08/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	980	100	11/07/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	48800	100	11/07/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	11000	100	11/07/2018	ND					

Surrogate: 1-Chlorooctane 210 % 41-142

Surrogate: 1-Chlorooctadecane 2180 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 16 @ 1' (H803189-53)

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	11/08/2018	ND	1.72	85.8	2.00	1.60		
Toluene*	<0.050	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02		
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900		
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07		
Total BTEX	<0.300	0.300	11/08/2018	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	165	10.0	11/07/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	40.7	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 92.3 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 16 @ 2' (H803189-54)

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	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	0.120	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	0.287	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	0.945	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTEX	1.35	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.5	10.0	11/07/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	296	10.0	11/07/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	47.1	10.0	11/07/2018	ND					

Surrogate: 1-Chlorooctane 87.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.5 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 16 @ 3' (H803189-55)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2018	ND	1.72	85.8	2.00	1.60		
Toluene*	<0.050	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02		
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900		
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07		
Total BTX	<0.300	0.300	11/08/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	73.4	10.0	11/08/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	10.2	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.5 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 16 @ 4' (H803189-56)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/08/2018	ND	400	100	400	0.00		

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 17 @ SURFACE (H803189-57)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.869	0.500	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	24.9	0.500	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	21.2	0.500	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	52.7	1.50	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTEX	99.7	3.00	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1440	50.0	11/08/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	29700	50.0	11/08/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	6000	50.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 206 % 41-142

Surrogate: 1-Chlorooctadecane 1300 % 37.6-147

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Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	10/30/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 17 @ 1' (H803189-58)

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	11/08/2018	ND	1.72	85.8	2.00	1.60		
Toluene*	<0.050	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02		
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900		
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07		
Total BTEx	<0.300	0.300	11/08/2018	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	102	10.0	11/08/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	29.3	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 86.3 % 37.6-147

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Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 17 @ 2' (H803189-59)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	0.119	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	0.190	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	0.465	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTX	0.783	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	22.4	10.0	11/08/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	1010	10.0	11/08/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	184	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 91.5 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 17 @ 3' (H803189-60)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2018	ND	1.72	85.8	2.00	1.60		
Toluene*	<0.050	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02		
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900		
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07		
Total BTX	<0.300	0.300	11/08/2018	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	11.2	10.0	11/08/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 89.5 % 41-142

Surrogate: 1-Chlorooctadecane 92.6 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 17 @ 4' (H803189-61)

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	11/08/2018	ND	400	100	400	0.00		

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 18 @ SURFACE (H803189-62)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.5	2.00	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	102	2.00	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	66.2	2.00	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	153	6.00	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTX	333	12.0	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	11/08/2018	ND	400	100	400	0.00	
TPH 8015M									S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4230	100	11/08/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	42900	100	11/08/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	8660	100	11/08/2018	ND					

Surrogate: 1-Chlorooctane 347 % 41-142

Surrogate: 1-Chlorooctadecane 1530 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 18 @ 1' (H803189-63)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.217	0.100	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	4.52	0.100	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	4.35	0.100	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	10.1	0.300	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTEX	19.2	0.600	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	321	10.0	11/08/2018	ND	175	87.7	200	8.37		
DRO >C10-C28*	4390	10.0	11/08/2018	ND	199	99.6	200	9.97		
EXT DRO >C28-C36	827	10.0	11/08/2018	ND						

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 255 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 18 @ 2' (H803189-64)

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	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	0.344	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	0.505	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	1.24	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTEX	2.09	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	35.6	10.0	11/08/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	1380	10.0	11/08/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	246	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 147 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 18 @ 3' (H803189-65)

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	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	<0.050	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTEX	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	18.6	10.0	11/08/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.8 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 18 @ 4' (H803189-66)

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	11/08/2018	ND	400	100	400	0.00		

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Cliff Brunson
P.O. Box 805
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Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 19 @ SURFACE (H803189-67)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.37	2.00	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	67.4	2.00	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	65.6	2.00	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	160	6.00	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTEX	298	12.0	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/08/2018	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3970	50.0	11/08/2018	ND	175	87.7	200	8.37	
DRO >C10-C28*	35400	50.0	11/08/2018	ND	199	99.6	200	9.97	
EXT DRO >C28-C36	6160	50.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 389 % 41-142

Surrogate: 1-Chlorooctadecane 1180 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 19 @ 1' (H803189-68)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	11/08/2018	ND	1.72	85.8	2.00	1.60		
Toluene*	2.86	0.200	11/08/2018	ND	1.63	81.4	2.00	3.02		
Ethylbenzene*	3.30	0.200	11/08/2018	ND	1.58	79.0	2.00	0.900		
Total Xylenes*	8.42	0.600	11/08/2018	ND	4.97	82.9	6.00	1.07		
Total BTEX	14.6	1.20	11/08/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	409	50.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	6650	50.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	872	50.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 146 % 41-142

Surrogate: 1-Chlorooctadecane 160 % 37.6-147

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
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Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 19 @ 2' (H803189-69)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	2.35	0.100	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	3.10	0.100	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	7.60	0.300	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTX	13.1	0.600	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	182	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	2970	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	457	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 19 @ 3' (H803189-70)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.72	85.8	2.00	1.60	
Toluene*	<0.050	0.050	11/08/2018	ND	1.63	81.4	2.00	3.02	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.58	79.0	2.00	0.900	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.97	82.9	6.00	1.07	
Total BTX	<0.300	0.300	11/08/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	19.3	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	18.1	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 97.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 19 @ 4' (H803189-71)

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	11/08/2018	ND	400	100	400	0.00	QR-03	

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 20 @ SURFACE (H803189-72)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.40	1.00	11/08/2018	ND	1.66	83.1	2.00	5.20	QM-07
Toluene*	46.9	1.00	11/08/2018	ND	1.65	82.7	2.00	6.79	QM-07
Ethylbenzene*	44.2	1.00	11/08/2018	ND	1.61	80.5	2.00	9.12	QM-07
Total Xylenes*	96.3	3.00	11/08/2018	ND	4.80	80.0	6.00	8.14	QM-07
Total BTX	191	6.00	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2370	100	11/08/2018	ND	175	87.6	200	13.0		
DRO >C10-C28*	38100	100	11/08/2018	ND	182	90.8	200	13.7		
EXT DRO >C28-C36	5900	100	11/08/2018	ND						

Surrogate: 1-Chlorooctane 384 % 41-142

Surrogate: 1-Chlorooctadecane 889 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 20 @ 1' (H803189-73)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.065	0.050	11/08/2018	ND	1.66	83.1	2.00	5.20	
Toluene*	1.73	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79	
Ethylbenzene*	2.61	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12	
Total Xylenes*	6.20	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14	
Total BTEX	10.6	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 168 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	204	50.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	3890	50.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	696	50.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 212 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 20 @ 2' (H803189-74)

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	11/08/2018	ND	1.66	83.1	2.00	5.20	
Toluene*	<0.050	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14	
Total BTEX	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	11.3	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 99.9 % 41-142

Surrogate: 1-Chlorooctadecane 93.5 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 20 @ 3' (H803189-75)

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	11/08/2018	ND	1.66	83.1	2.00	5.20	
Toluene*	<0.050	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14	
Total BTEx	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 80.6 % 37.6-147

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 20 @ 4' (H803189-76)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00		

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 21 @ SURFACE (H803189-77)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.66	83.1	2.00	5.20	
Toluene*	0.426	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79	
Ethylbenzene*	0.392	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12	
Total Xylenes*	0.988	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14	
Total BTX	1.81	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	14.6	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	1190	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	287	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 99.7 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Analytical Results For:

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

Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 21 @ 1' (H803189-78)

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	11/08/2018	ND	1.66	83.1	2.00	5.20		
Toluene*	<0.050	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79		
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12		
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14		
Total BTEX	<0.300	0.300	11/08/2018	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	11.1	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	10.9	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 94.2 % 37.6-147

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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:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 21 @ 2' (H803189-79)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00		

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Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 22 @ SURFACE (H803189-80)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.66	83.1	2.00	5.20	
Toluene*	0.103	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79	
Ethylbenzene*	0.148	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12	
Total Xylenes*	0.388	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14	
Total BTX	0.640	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	86.2	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	22.7	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 22 @ 1' (H803189-81)

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	11/08/2018	ND	1.66	83.1	2.00	5.20	
Toluene*	<0.050	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14	
Total BTEx	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 96.4 % 41-142

Surrogate: 1-Chlorooctadecane 87.9 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 22 @ 2' (H803189-82)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00		

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Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 23 @ SURFACE (H803189-83)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.052	0.050	11/08/2018	ND	1.66	83.1	2.00	5.20	
Toluene*	0.943	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79	
Ethylbenzene*	0.577	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12	
Total Xylenes*	1.21	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14	
Total BTX	2.79	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	1720	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	304	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 91.4 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 23 @ 1' (H803189-84)

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	11/08/2018	ND	1.66	83.1	2.00	5.20	
Toluene*	<0.050	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14	
Total BTEx	<0.300	0.300	11/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	18.5	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	16.5	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 96.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.8 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 23 @ 2' (H803189-85)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/08/2018	ND	400	100	400	0.00		

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Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 24 @ SURFACE (H803189-86)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.072	0.050	11/08/2018	ND	1.66	83.1	2.00	5.20		
Toluene*	1.13	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79		
Ethylbenzene*	0.568	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12		
Total Xylenes*	1.17	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14		
Total BTEX	2.94	0.300	11/08/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	5360	50.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	968	50.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 84.6 % 41-142

Surrogate: 1-Chlorooctadecane 158 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 24 @ 1' (H803189-87)

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	11/08/2018	ND	1.66	83.1	2.00	5.20	
Toluene*	<0.050	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14	
Total BTEX	<0.300	0.300	11/08/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	12.2	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	11.8	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SP 24 @ 2' (H803189-88)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/08/2018	ND	400	100	400	0.00		

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Received:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: NORTH @ SURFACE (H803189-89)

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	11/08/2018	ND	1.66	83.1	2.00	5.20		
Toluene*	<0.050	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79		
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12		
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14		
Total BTEx	<0.300	0.300	11/08/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 99.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.3 % 37.6-147

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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:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: EAST @ SURFACE (H803189-90)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2018	ND	1.66	83.1	2.00	5.20	
Toluene*	<0.050	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12	
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14	
Total BTX	<0.300	0.300	11/08/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/08/2018	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 84.5 % 37.6-147

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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:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: WEST@ SURFACE (H803189-91)

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	11/08/2018	ND	1.66	83.1	2.00	5.20		
Toluene*	<0.050	0.050	11/08/2018	ND	1.65	82.7	2.00	6.79		
Ethylbenzene*	<0.050	0.050	11/08/2018	ND	1.61	80.5	2.00	9.12		
Total Xylenes*	<0.150	0.150	11/08/2018	ND	4.80	80.0	6.00	8.14		
Total BTEx	<0.300	0.300	11/08/2018	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/08/2018	ND	432	108	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	11/08/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	<10.0	10.0	11/08/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	11/08/2018	ND					

Surrogate: 1-Chlorooctane 98.0 % 41-142

Surrogate: 1-Chlorooctadecane 86.4 % 37.6-147

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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:	11/06/2018	Sampling Date:	10/31/2018
Reported:	11/12/2018	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO STATE COM #4H	Sampling Condition:	Cool & Intact
Project Number:	(10/18/18)	Sample Received By:	Tamara Oldaker
Project Location:	COG - LEA CO NM		

Sample ID: SOUTH @ SURFACE (H803189-92)

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	11/09/2018	ND	2.02	101	2.00	0.173	
Toluene*	<0.050	0.050	11/09/2018	ND	1.93	96.4	2.00	0.0320	
Ethylbenzene*	<0.050	0.050	11/09/2018	ND	1.85	92.6	2.00	0.256	
Total Xylenes*	<0.150	0.150	11/09/2018	ND	5.81	96.8	6.00	0.301	
Total BTEx	<0.300	0.300	11/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/08/2018	ND	432	108	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	11/09/2018	ND	175	87.6	200	13.0	
DRO >C10-C28*	12.9	10.0	11/09/2018	ND	182	90.8	200	13.7	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 88.7 % 41-142

Surrogate: 1-Chlorooctadecane 97.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: 		Date: 10/31/18	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 5:30pm				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: 		Date: 11-6-18	Received By: 	REMARKS:	
Time: 15:15					
Delivered By: (Circle One)			Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other: - 8.5° #97			Cool Intact	(Initials)	
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	TO	
			<input type="checkbox"/> Yes <input type="checkbox"/> No		

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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:		<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH - ext</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">C1</div> </div>											
Address: P.O. Box 805				Company: <u>LOG</u>													
City: Hobbs		State: NM		Zip: 88241													
Phone #: 575-397-6388		Fax #: 575-397-0397		Attn: <u>R. Haskell</u>													
Project #:				Address:													
Project Owner:				City:													
Project Name: Magnum Pronto State Com #4H - 10 - 18 - 18				State:												Zip:	
Project Location:				Phone #:													
Sampler Name: Jeff Ornelas				Fax #:													

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME
GROUNDWATER	WASTEWATER				SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
<u>H803189</u>																
<u>11</u>	SP4 @ 1'													10-26-18	10:45 am	
<u>12</u>	SP4 @ 2'													10-26-18	10:59am	
<u>13</u>	SP5 @ Surface													10-26-18	11:11 am	
<u>14</u>	SP5 @ 1'													10-26-18	11:22 am	
<u>15</u>	SP5 @ 2'													10-26-18	11:40 am	
<u>16</u>	SP6 @ Surface													10-26-18	12:01 pm	
<u>17</u>	SP6 @ 1'													10-26-18	12:12 pm	
<u>18</u>	SP6 @ 2'													10-26-18	12:57 pm	
<u>19</u>	SP7 @ Surface													10-26-18	1:05 pm	
<u>20</u>	SP7 @ 1'													10-26-18	1:11 pm	

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Relinquished By: <u>Jeff Ornelas</u>	Date: <u>10/31/18</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>5:30pm</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <u>[Signature]</u>	Date: <u>11-6-18</u>	Received By: <u>[Signature]</u>	REMARKS:	
	Time: <u>15:15</u>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <u>- 8.5C #97</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>TO</u>		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>[Signature]</i> Date: <i>10/31/18</i> Time: <i>5:30p</i>		Received By: <i>[Signature]</i> Date: <i>11-6-18</i> Time: <i>15:15</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS:	
Relinquished By: <i>[Signature]</i> Date: <i>11-6-18</i> Time: <i>15:15</i>		Received By: <i>[Signature]</i> Date: <i>11-6-18</i> Time: <i>15:15</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>-8.5°C #97</i>		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <i>TO.</i>	

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH ext</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CI</div> </div>																			
Address: P.O. Box 805				Company: <u>CoG</u>																							
City: Hobbs State: NM Zip: 88241				Attn: <u>R. Haskell</u>																							
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																							
Project #: Project Owner:				City:																							
Project Name: Magnum Pronto State Com #4H <u>10-18-18</u>				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: Jeff Ornelas				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(GRAB OR C)COMP. # CONTAINERS	MATRIX					PRESERV.	SAMPLING																		
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME														
<u>H803189</u>																											
<u>31</u>	SP10 @ 2'	<u>G</u>										10-30-18	10:22 am	<u>✓</u>	<u>✓</u>	<u>✓</u>											
<u>32</u>	SP10 @ 3'											10-30-18	10:31 am	<u>✓</u>	<u>✓</u>	<u>✓</u>											
<u>33</u>	SP11 @ Surface											10-30-18	10:33 am	<u>✓</u>	<u>✓</u>	<u>✓</u>											
<u>34</u>	SP11 @ 1'											10-30-18	10:40 am	<u>✓</u>	<u>✓</u>	<u>✓</u>											
<u>35</u>	SP11 @ 2'											10-30-18	10:49 am	<u>✓</u>	<u>✓</u>	<u>✓</u>											
<u>36</u>	SP11 @ 3'											10-30-18	11:11 am	<u>✓</u>	<u>✓</u>	<u>✓</u>											
<u>37</u>	SP12 @ Surface											10-30-18	11:15 am	<u>✓</u>	<u>✓</u>	<u>✓</u>											
<u>38</u>	SP12 @ 1'											10-30-18	11:27 am	<u>✓</u>	<u>✓</u>	<u>✓</u>											
<u>39</u>	SP12 @ 2'											10-30-18	11:40 am	<u>✓</u>	<u>✓</u>	<u>✓</u>											
<u>40</u>	SP12 @ 3'											10-30-18	11:57 am	<u>✓</u>	<u>✓</u>	<u>✓</u>											

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Relinquished By: <u>Jeff Ornelas</u>	Date: <u>10/31/18</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>[Signature]</u>	Date: <u>11-6-18</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time: <u>5:30pm</u>	Time: <u>15:15</u>	REMARKS:	
Sampler - UPS - Bus - Other: <u>- 8.5°C #97</u>	Sample Condition	CHECKED BY: (Initials)		
	Cool Intact			
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>JO</u>		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																															
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; align-items: center; justify-content: center;"><div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 2em; margin-right: 10px;">BTX</div><div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 2em; margin-right: 10px;">TPH</div><div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 2em;">ext</div></div>																															
Address: P.O. Box 805				Company: <u>COG</u>																																			
City: Hobbs State: NM Zip: 88241				Attn: <u>R. Haskell</u>																																			
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																																			
Project #: Project Owner:				City:																																			
Project Name: Magnum Pronto State Com #4H <u>10-18-18</u>				State: Zip:																																			
Project Location:				Phone #:																																			
Sampler Name: Jeff Ornelas				Fax #:																																			
FOR LAB USE ONLY																																							
Lab I.D.		Sample I.D.		(O)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																											
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME															
<u>H863189</u>																																							
<u>41</u>		SP13 @ Surface		<u>3</u>		<u>1</u>																																	
<u>42</u>		SP13 @ 1'																																					
<u>43</u>		SP13 @ 2'																																					
<u>44</u>		SP13 @ 3'																																					
<u>45</u>		SP14 @ Surface																																					
<u>46</u>		SP14 @ 1'																																					
<u>47</u>		SP14 @ 2'																																					
<u>48</u>		SP15 @ Surface																																					
<u>49</u>		SP15 @ 1'																																					
<u>50</u>		SP15 @ 2'																																					
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																																							
Relinquished By: <u>Jeff Ornelas</u>				Date: <u>10/31/18</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																									
				Time: <u>5:30pm</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																									
										REMARKS:																													
Relinquished By: <u>[Signature]</u>				Date: <u>11-6-18</u>		Received By: <u>[Signature]</u>																																	
				Time: <u>15:15</u>																																			
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																															
Sampler - UPS - Bus - Other: <u>- 8.5c #97</u>				Cool Intact				(Initials)																															
				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No																															

† 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

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																																											
Project Manager: Cliff Brunson				P.O. #:																																															
Address: P.O. Box 805				Company: COG																																															
City: Hobbs		State: NM Zip: 88241		Attn: R Haskell																																															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																																															
Project #:		Project Owner:		City:																																															
Project Name: Magnum Pronto State Com #4H 10-18-18				State: Zip:																																															
Project Location:				Phone #:																																															
Sampler Name: Jeff Ornelas				Fax #:				BTEX TPH CI																																											
FOR LAB USE ONLY																																																			
Lab I.D.		Sample I.D.		MATRIX		PRESERV.														SAMPLING																															
		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER														WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
H803189		51		SP15 @ 3'		G														1																10-30-18		2:09 pm													
52				SP16 @ Surface																1																10-30-18		2:22 pm													
53				SP16 @ 1'																																10-30-18		2:30 pm													
54				SP16 @ 2'																				10-30-18		2:40 pm																									
55				SP16 @ 3'																				10-30-18		2:54 pm																									
56				SP16 @ 4'																				10-30-18		3:09 pm																									
57				SP17 @ Surface																				10-30-18		3:15 pm																									
58				SP17 @ 1'																				10-30-18		3:22 pm																									
59				SP17 @ 2'																				10-31-18		8:45 am																									
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Time: 5:30pm				Time: 15:15						REMARKS:																																									
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																																											
Cool Intact				Cool Intact				(Initials)																																											
Sampler - UPS - Bus - Other: 852 #97				<input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Yes <input type="checkbox"/> No																																											

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**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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Sampler Name: Jeff Ornelas				Fax #:																																																																																																																																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">FOR LAB USE ONLY</th> <th rowspan="2" style="width: 5%;">(GRAB OR COMPOUND)</th> <th rowspan="2" style="width: 5%;"># CONTAINERS</th> <th colspan="6" style="text-align: center;">MATRIX</th> <th colspan="2" style="text-align: center;">PRESERV.</th> <th colspan="2" style="text-align: center;">SAMPLING</th> </tr> <tr> <th style="width: 15%;">Lab I.D.</th> <th style="width: 25%;">Sample I.D.</th> <th style="width: 10%;">GROUNDWATER</th> <th style="width: 10%;">WASTEWATER</th> <th style="width: 10%;">SOIL</th> <th style="width: 10%;">OIL</th> <th style="width: 10%;">SLUDGE</th> <th style="width: 10%;">OTHER:</th> <th style="width: 10%;">ACID/BASE:</th> <th style="width: 10%;">ICE / COOL</th> <th style="width: 10%;">OTHER:</th> <th style="width: 10%;">DATE</th> <th style="width: 10%;">TIME</th> </tr> <tr> <td><u>H803189</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>61</u></td> <td>SP17 @ 4'</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td>10-31-18</td> <td>9:22 am</td> </tr> <tr> <td><u>62</u></td> <td>SP18 @ Surface</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10-31-18</td> <td>9:30 am</td> </tr> <tr> <td><u>63</u></td> <td>SP18 @ 1'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10-31-18</td> <td>9:32 am</td> </tr> <tr> <td><u>64</u></td> <td>SP18 @ 2'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10-31-18</td> <td>9:39 am</td> </tr> <tr> <td><u>65</u></td> <td>SP18 @ 3'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10-31-18</td> <td>9:45 am</td> </tr> <tr> <td><u>66</u></td> <td>SP18 @ 4'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10-31-18</td> <td>10:11 am</td> </tr> <tr> <td><u>67</u></td> <td>SP19 @ Surface</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10-31-18</td> <td>10:15 am</td> </tr> <tr> <td><u>68</u></td> <td>SP19 @ 1'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10-31-18</td> <td>10:22 am</td> </tr> <tr> <td><u>69</u></td> <td>SP19 @ 2'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10-31-18</td> <td>10:33 am</td> </tr> <tr> <td><u>70</u></td> <td>SP19 @ 3'</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10-31-18</td> <td>10:44 am</td> </tr> </table>																FOR LAB USE ONLY		(GRAB OR COMPOUND)	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		Lab I.D.	Sample I.D.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	<u>H803189</u>														<u>61</u>	SP17 @ 4'	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		10-31-18	9:22 am	<u>62</u>	SP18 @ Surface											10-31-18	9:30 am	<u>63</u>	SP18 @ 1'											10-31-18	9:32 am	<u>64</u>	SP18 @ 2'											10-31-18	9:39 am	<u>65</u>	SP18 @ 3'											10-31-18	9:45 am	<u>66</u>	SP18 @ 4'											10-31-18	10:11 am	<u>67</u>	SP19 @ Surface											10-31-18	10:15 am	<u>68</u>	SP19 @ 1'											10-31-18	10:22 am	<u>69</u>	SP19 @ 2'											10-31-18	10:33 am	<u>70</u>	SP19 @ 3'											10-31-18	10:44 am
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Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH Ext</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CI</div> </div>																	
Address: P.O. Box 805				Company: <u>COG</u>																					
City: Hobbs State: NM Zip: 88241				Attn: <u>R. Haskell</u>																					
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																					
Project #: Project Owner:				City:																					
Project Name: Magnum Pronto State Com #4H <u>10-18-18</u>				State: Zip:																					
Project Location:				Phone #:																					
Sampler Name: Jeff Ornelas				Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<u>H803189</u>																									
<u>71</u>	SP19 @ 4'	<u>G</u>										10-31-18	10:55 am												
<u>72</u>	SP20 @ Surface											10-31-18	10:59 am	✓	✓	✓									
<u>73</u>	SP20 @ 1'											10-31-18	11:05 am	✓	✓	✓									
<u>74</u>	SP20 @ 2'											10-31-18	11:11 am	✓	✓	✓									
<u>75</u>	SP20 @ 3'											10-31-18	11:19 am	✓	✓	✓									
<u>76</u>	SP20 @ 4'											10-31-18	11:39 am	✓	✓	✓									
<u>77</u>	SP21 @ Surface											10-31-18	11:57 am	✓	✓	✓									
<u>78</u>	SP21 @ 1'											10-31-18	12:12 pm	✓	✓	✓									
<u>79</u>	SP21 @ 2'											10-31-18	12:50 pm	✓	✓	✓									
<u>80</u>	SP22 @ Surface											10-31-18	12:59 pm	✓	✓	✓									

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Relinquished By: <u>Jeff Ornelas</u>	Date: <u>10/31/18</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <u>[Signature]</u>	Date: <u>11-6-18</u>	Received By: <u>[Signature]</u>	REMARKS:	
	Time: <u>15:15</u>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <u>-8.5° #97</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>TO</u>		

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9-10-10

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			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
<u>H803189</u>																												
<u>81</u>	SP22 @ 1'	<u>6</u>			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		10-31-18	1:05 pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>82</u>	SP22 @ 2'											10-31-18	1:11 pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>83</u>	SP23 @ Surface											10-31-18	1:30 pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>84</u>	SP23 @ 1'											10-31-18	1:40 pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>85</u>	SP23 @ 2'											10-31-18	1:50 pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>86</u>	SP24 @ Surface											10-31-18	2:15 pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>87</u>	SP24 @ 1'											10-31-18	2:30 pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>88</u>	SP24 @ 2'											10-31-18	3:01 pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>89</u>	North @ Surface											10-31-18	3:10 pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
<u>90</u>	East @ Surface											10-31-18	3:15 pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												

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Relinquished By:	Date: <u>10/31/18</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<u>Jeff Ornelas</u>	Time: <u>5:30 pm</u>	<u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: <u>11-6-18</u>	Received By:	REMARKS:	
<u>[Signature]</u>	Time: <u>15:15</u>	<u>Jamora [Signature]</u>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <u>-8.5c #97</u>	Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>JO.</u>		

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


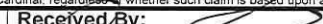




CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 		Date: 10/31/18 Time: 5:30pm		Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By: 		Date: 11-6-18 Time: 15:15		Received By: 		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) TO	

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