District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible Party: BP America Production Co.	OGRID: 778	Final – Resubmittal
Contact Name: Steve Moskal	Contact Telephone: (505) 330-91	79
Contact email: steven.moskal@bpx.com	Incident # NCS2005837120	
Contact mailing address: 1199 Main Street, Suite 101, Durango CO, 81301		

## **Location of Release Source**

Latitude: 36.70059°

*Longitude: -108.17689°* (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Gallegos Canyon Unit 135	Site Type: Natural Gas Production Well Pad
Date Release Discovered: October 11, 2019	API#: 30-045-07885

Unit Letter	Section	Township	Range	County
F	26	T29N	R13W	San Juan

Surface Owner: State Federal Tribal Private (Name: Bolack)

## Nature and Volume of Release

Materia	al(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water Volume Released (bbls): <u>Unknown; historic</u>		Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls): <u>Unknown; historic</u>	Volume Recovered (bbls): <u>0 bbls</u>
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Impacts were identified at the location on October 11, 2019 during a BGT closure following plugging and abandonment of the production well. The source of the impacts appeared historic, either being a former earthen pit of caused from pit overflow events prior to automation.

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## Oil Conservation Division

Incident ID	
District RP	
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Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
5	
19.15.29.7(A) NMAC?	
🗌 Yes 🖾 No	
LOVED 11	
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

## **Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 $\square$  The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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:	Title:	
Signature:	Date:	_
email:	Telephone:	
OCD Only		
Received by:	Date:	

**Received by OCD: 3/2/2020 11:01:13 AM** Form C-141 State of New Mexico

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Oil Conservation Division

Incident ID	
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## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</u> (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🛛 Yes 🗌 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)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 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?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	🗌 Yes 🔀 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.

eceived by OCD: 3/2/2020	11:01:13 AM State of New Mexico		Page 4 of 1
		Incident ID	
age 4	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
regulations all operators are re public health or the environme failed to adequately investigat	hation given above is true and complete to the best of my k equired to report and/or file certain release notifications and ent. The acceptance of a C-141 report by the OCD does no e and remediate contamination that pose a threat to ground a C-141 report does not relieve the operator of responsibility kal Title: <u>Environmen</u>	d perform corrective actions for releases of relieve the operator of liability should t lwater, surface water, human health or the ty for compliance with any other federal,	which may endanger heir operations have e environment. In
Signature: <u>Addan</u> email: <u>steven.moskal@b</u>		<u>y 28, 2020</u> _(505) 330-9179	_
OCD Only Received by:	Da	ate:	

Received by OCD: 3/2/2020 11:01:13 AM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 $\boxtimes$  Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be co	onfirmed 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 heat	th, the environment, or groundwater.							
rules and regulations all operators are required to report and/or file	D acceptance of a C-141 report does not relieve the operator of							
Printed Name:								
Signature: Date	:							
email:	Telephone:							
OCD Only								
Received by:	Date:							
Approved Approved with Attached Conditions of	f Approval Denied Deferral Approved							
Signature:	Date:							

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Oil Conservation Division

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District RP		
Facility ID		
Application II	)	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.						
A scaled site and sampling diagram as described in 19.15.29.11 NMAC						
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)						
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)						
Description of remediation activities						
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.         Printed Name:       Steve Moskal       Title:       Environmental Coordinator         Gamma i:       _steven.moskal@bpx.com       Telephone: _(505) 330-9179						
OCD Only						
Received by:         OCD         Date:         3/2/2020						
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.						
Closure Approved by: Date: Date:						
Printed Name: Cory Smith Title: Environmental Specialist						

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# Siting Criteria

### SITING AND HYDRO-GEOLOGICAL REPORT FOR GALLEGOS CANYON UNIT 135 – TANK ID: 3004507885B

#### Siting Criteria 19.15.17.10 NMAC

Depth to groundwater at the site is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), and depth to groundwater data obtained from water wells permitted by the New Mexico State Engineer's Office (OSE, Figure 1). Local topography and proximity to adjacent water features is also considered. A topographic map of the site is provided as Figure 2 and demonstrates that the below grade tank (BGT) is not within 300 feet of any continuously flowing watercourse or within 200 feet of any other significant watercourse, lakebed, sinkhole or playa lake as measured from the ordinary high water mark. Figure 3 demonstrates that the BGT is not within 300 feet of a permanent residence, school, hospital, institution or church. Figure 4 demonstrates, based on a search of the OSE database and USGS topographic maps, that there are no freshwater wells or springs within 1000 feet of the BGT. Figure 5 demonstrates that the BGT is not within a municipal boundary or a defined municipal freshwater well field. Figure 6 demonstrates that the BGT is not within 500 feet of a wetland. Figure 7 demonstrates that the BGT is not in an area overlying a subsurface mine. The BGT is not located in an unstable area. Figure 8 demonstrates that the BGT is not within the mapped FEMA 100-year floodplain.

#### Local Geology and Hydrology

This particular site is located on a cliff top close to the San Juan River, but hundreds of feet higher in elevation. The cliff top is composed of San Jose Formation sandstone. Topography is dominated by the main channel of the river, its floodplain and terrace deposits. Moving out from the San Juan River, eroded surfaces of the Nacimiento Formation form slopes that are capped by the resistant sandstones of the San Jose Formation.

#### **Regional Geology and Hydrology**

The San Juan Basin is situated in the Navajo section of the Colorado Plateau and is characterized by broad open valleys, mesas, buttes and hogbacks. Away from major valleys and canyons topographic relief is generally low. Native vegetation is sparse and shrubby. Drainage is mainly by the San Juan River, the only permanent stream in the Navajo Section of the Colorado Plateau. The San Juan River is a tributary of the Colorado River. Major tributaries include the Animas, Chaco and La Plata Rivers. Flow of the San Juan River across the basin is regulated by the Navajo Dam, located about 30 miles northeast of Farmington, New Mexico. The climate is arid to semiarid with an average annual precipitation of 8 to 10 inches. Soils within the basin consist of weathered parent rock derived from predominantly physical means mostly from eolian depositional system with fluvial having a lesser impact.

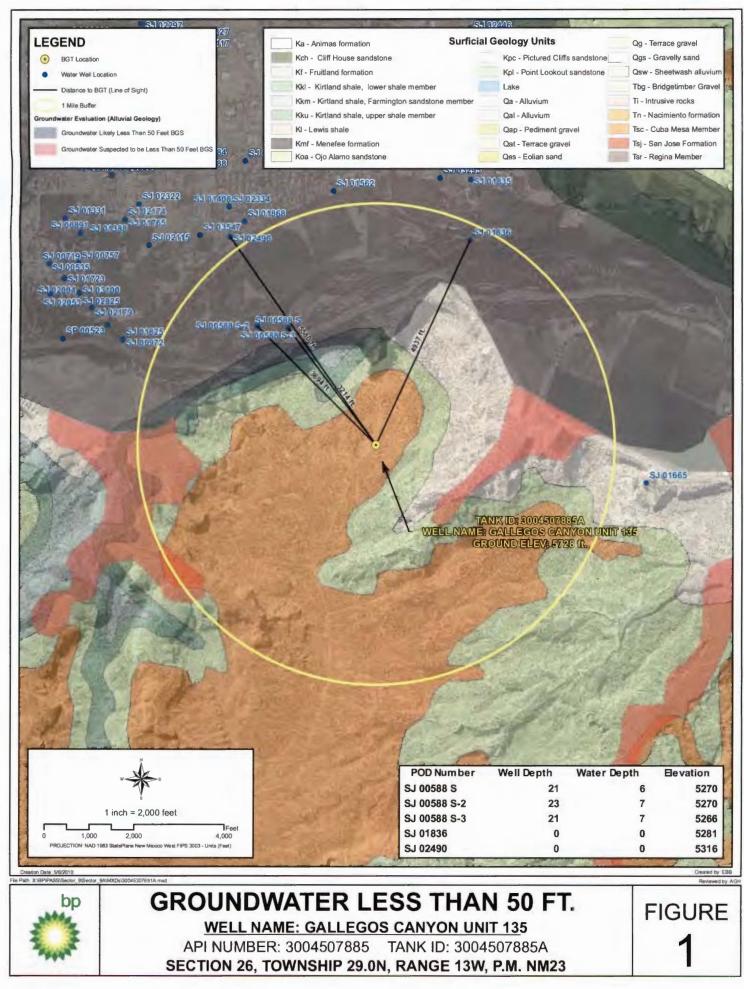
Cretaceous and Tertiary sandstones, as well as Quaternary Alluvial deposits, serve as the primary aquifers in the San Juan Basin (Stone et al., 1983). The San Jose Formation of Eocene age occurs in both New Mexico and Colorado, and its outcrop forms the land surface over much of the eastern half of the central basin. It overlies the Nacimiento Formation in the area generally

south of the Colorado-New Mexico border and overlies the Animas Formation in the general area north of the State Line. The San Jose Formation was deposited in various fluvial-type environments. In general, the unit consists of an interbedded sequence of sandstone, siltstone, and shale. Thickness of the San Jose Formation increases from west to east. Groundwater is associated with alluvial and fluvial sandstone aquifers. The occurrence of groundwater is mainly controlled by distribution of sandstone in the formation. The reported or measured discharge from numerous water wells completed in the formation range from 0.15 to 61 gallons per minute (gpm) and with a median of 5 gpm. Most of the wells provide water for livestock and domestic purposes. The formation is suitable for recharge from precipitation due to overlying soils being sandy, highly permeable and absorbent. Low annual precipitation, relatively high transpiration and evaporation rates and deep dissection of the formation by the San Juan River and its main tributaries all tend to reduce the effective recharge to the formation. Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation of Paleocene age are between 0 and 1000 feet deep in the majority of the basin as well (Stone et al., 1983).

#### **References**

Circular 154—Guidebook to coal geology of northwest New Mexico By E. C. Beaumont, J. W. Shomaker, W. J. Stone, and others, 1976

Stone, et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico, Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p







## New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are sm	argest	)	(NAD83 U			
Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	х	Y	
	SJ 00972	4 3	22	29N	13W	214496	4067114* 🍯	1
Driller Lic		Driller Compa	ny:	WE	ESTERN	WATER W	VELLS	
Driller Na	me:							
Drill Start	Date: 06/26/1979	Drill Finish Da	te:	0	6/29/197	9 <b>Pl</b>	ug Date:	
Log File D	ate: 07/05/1979	PCW Rcv Date				So	urce:	Shallow
Pump Typ	e:	Pipe Discharge	Size:			Es	timated Yield	:
Casing Siz		Depth Well:		2	5 feet	D	pth Water:	12 feet

#### \*UTM location was derived from PLSS - see Help

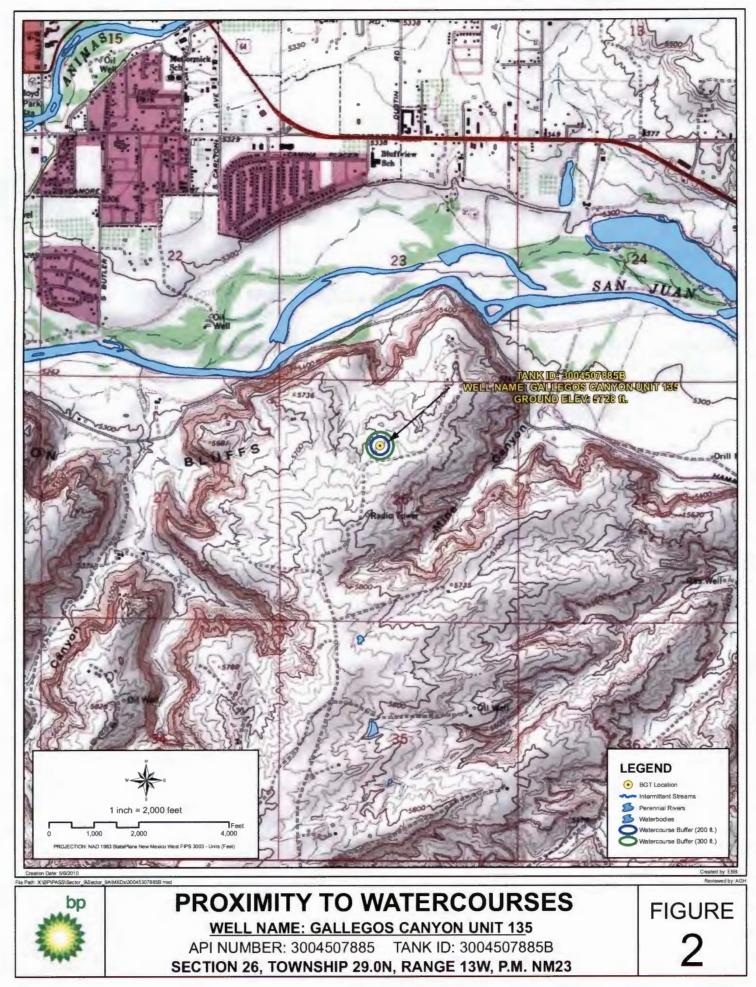
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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POINT OF DIVERSION SUMMARY

Surface Elevation of SJ 99072 = 5,300'

Surface Elevation of GCU 135 BGT = 5728; DTW est 416' BGS.



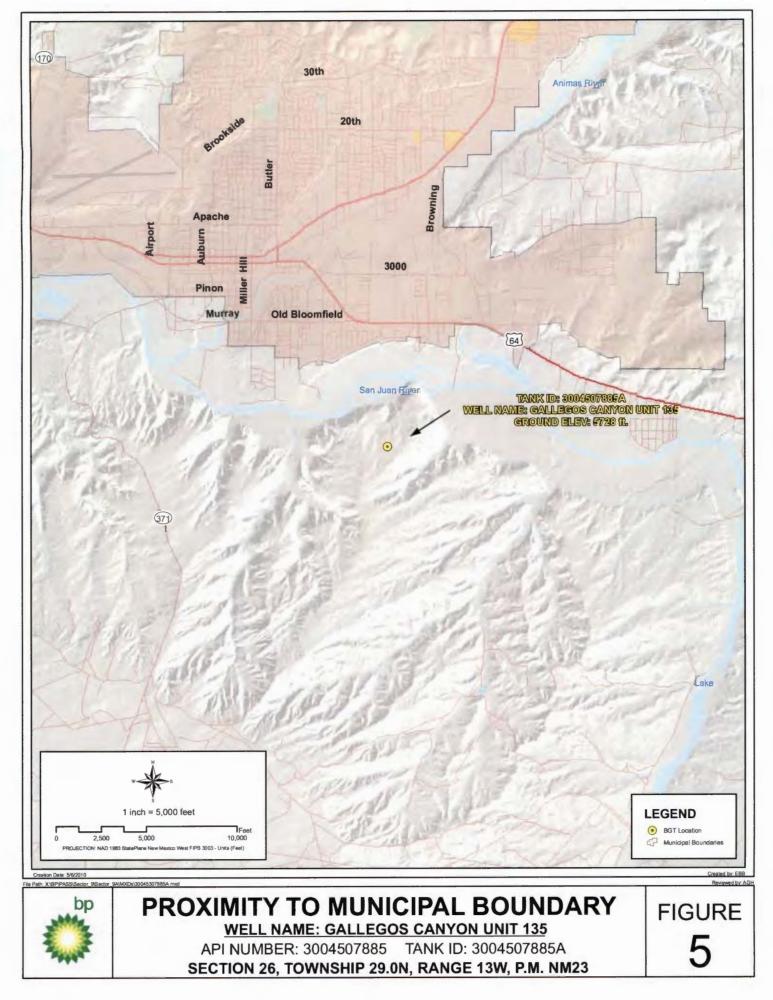


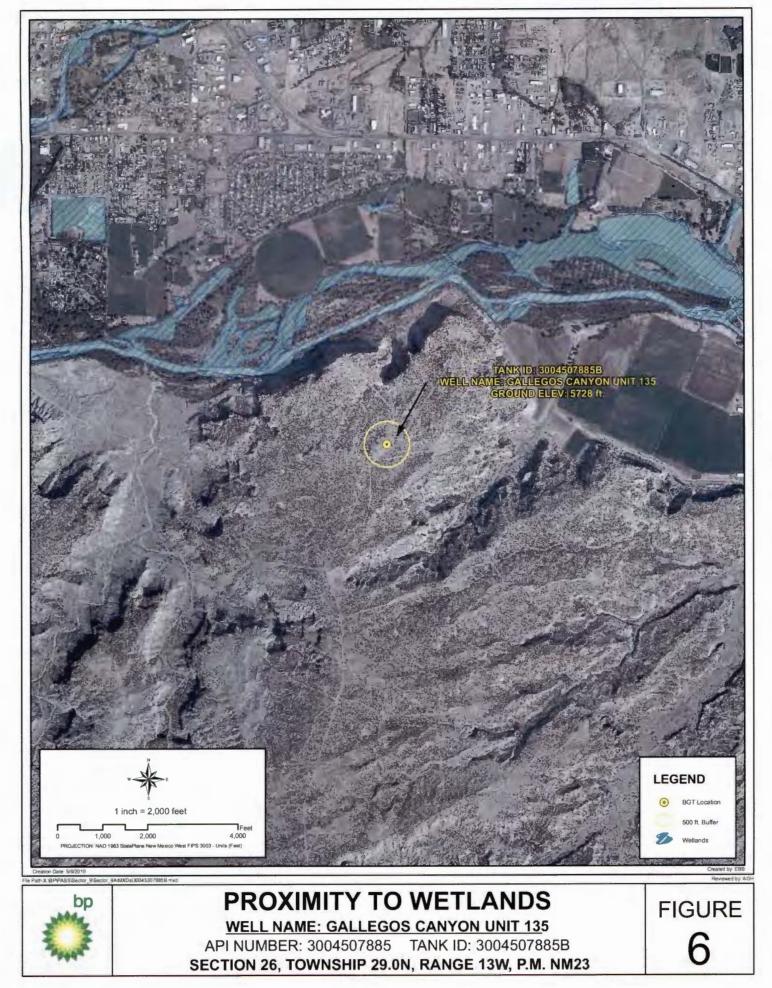
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## SOUTHERN SAN JUAN BASIN (SSJB)

## **Figure Citation List**

## March 2010

#### Figure 1: Groundwater Less Than 50 ft.

Layers:

#### Water Wells:

#### iWaters Database: NMOSE/ISC (Dec. 2009)

New Mexico Office of the State Engineer (OSE) /ISC iWaters database. (Data updated: 12/2009. Data received: 03/09/2010). Data available from: http://www.ose.state.nm.us/waters\_db\_index.html.

#### **Cathodic Wells:**

#### Tierra Corrosion Control, Inc. (Aug. 2008)

Tierra Corrosion Control, Inc. 1700 Schofield Ln. Farmington, NM 87401. Driller's Data Log. (Data collected: All data are associated with cathodic protection wells installed at BP facilities between 2008-2009. Data received: 05/06/2010).

#### Hydrogeological Evaluation:

#### Wright Water Engineers, Inc. (2008)

Evaluation completed by Wright Water Engineers, Inc. Durango Office. Data created using digital statewide geology at 1:500,000 from USGS in combination with 10m Digital Elevation Model (DEM) from NRCS. (Data compiled: 2008.)

Results: Spatial Polygons representing "Groundwater likely to be less than 50 ft." and "Groundwater suspected to be less than 50 ft.".

#### Surficial Geology:

#### USGS (1963/1987)

Data digitized and rectified by Geospatial Consultants. (Data digitized: 03/23/2010). Original hard copy maps sourced from United States Geological Survey (USGS). Data available from: http://pubs.er.usgs.gov/.

Geology, Structure and Uranium Deposits of the Shiprock Quadrangle, New Mexico and Arizonia. 1:250,000. I - 345. Compiled by Robert B. O'Sullivan and Helen M. Beikman. 1963.

Geologic Map of the Aztec 1 x 2 Quadrangle, Northwestern New Mexico and Southern Colorado. 1:250,000. I - 1730. Compiled by Kim Manley, Glenn R. Scott, and Reinhard A. Wobus. 1987.

#### **Aerial Imagery:**

#### Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD\_1983\_StatePlane\_New\_Mexico\_West\_FIPS\_3003\_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

#### Figure 2: Proximity to Watercourses

#### Layers:

#### **Perennial Streams:**

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/ 2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital Representation of USGS 24k Topographic map series with field updates as required. Data available from: http://nhd.usgs.gov/.

#### Intermittent Streams:

#### NHD, USGS (2010)

NHD, USGS (2010)

NHD, USGS (2010)

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/ 2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital Representation of USGS 24k Topographic map series with field updates as required. Data available from: http://nhd.usgs.gov/.

#### Water Bodies:

## National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/ 2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital representation of USGS 24k Topographic map series with field updates as required. Data available from: http://nhd.usgs.gov/.

#### **USGS Topographic Maps:**

**USGS (2007)** 

USGS 24k Topographic map series. 1:24000. Maps are seamless, scanned images of USGS paper topographic maps. Data available from: <u>http://store.usgs.gov</u>.

#### Figure 3: Proximity to Permanent Structure

#### Layers:

#### **Aerial Imagery:**

#### Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name:

NAD\_1983\_StatePlane\_New\_Mexico\_West\_FIPS\_3003\_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

#### Figure 4: Proximity to Water Wells

#### Layers:

#### Water Wells:

#### iWaters Database: NMOSE/ISC (Dec. 2009)

New Mexico Office of the State Engineer (OSE) /ISC iWaters database. (Data updated: 12/2009. Data received: 03/09/2010). Data available from: http://www.ose.state.nm.us/waters\_db\_index.html.

#### Springs/Seeps:

#### NHD, USGS (2010)

National Hydrography Dataset (NHD). U.S. Geological Survey. (Data last updated: 02/19/ 2010. Data received: 03/09/2010). High-resolution: 1:24,000. Digital representation of USGS 24k Topographic map series with field updates as required. Data available from: <u>http://nhd.usgs.gov/.</u>

#### Aerial Imagery:

#### Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD\_1983\_StatePlane\_New\_Mexico\_West\_FIPS\_3003\_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

## Figure 5: Proximity to Municipal Boundary

#### Layers:

## Municipal Boundary: San Juan County, New Mexico (2010)

Data provided by San Juan County GIS Division. (Data received: 03/25/2010).

#### Shaded Relief: NED, USGS (1999)

National Elevation Dataset (NED). U.S. Geological Survey, EROS Data Center. (Data created: 1999. Data downloaded: April, 2010). Resolution: 10 meter (1/3 arc-second). Data available from: <u>http://ned.usgs.gov/</u>.

#### StreetMap North America:

#### Tele Atlas North America, Inc., ESRI (2008)

Data derived from Tele Atlas Dynamap/Transportation North America, version 5.2. (Data updated: annually. Data series issue: 2008).

#### Figure 6: Proximity to Wetlands

#### Layers:

#### Wetlands: NWI (2010)

National Wetlands Inventory (NWI). U.S Fish and Wildlife Service. (Data last updated: 09/25/2009. Data received: 03/21/2010). Data available from: <u>http://www.fws.gov/wetlands/</u>.

#### Aerial Imagery:

Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD\_1983\_StatePlane\_New\_Mexico\_West\_FIPS\_3003\_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

#### Figure 7: Proximity to Subsurface Mine

#### Layers:

#### Subsurface Mine:

#### NM Mining and Minerals Division (2010)

New Mexico Mining and Minerals Division. (Data received: 03/12/2010). Contact: Susan Lucas Kamat, Geologist. Provided PLSS NM locations (Sections) for the two subsurface mines located in San Juan and Rio Arriba counties.

#### Aerial Imagery:

#### Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD\_1983\_StatePlane\_New\_Mexico\_West\_FIPS\_3003\_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

## Figure 8: Proximity to FEMA Floodplain

#### Layers:

#### **FEMA Floodplain:**

### FEMA (varying years)

Data digitized and rectified by Wright Water Engineers, Inc. (Data digitized: August 2008). Digitized from hard copy Flood Insurance Rate Maps (FIRMs) (varying years) of San Juan County.

#### **Aerial Imagery:**

## Conoco (Summer 2009)

ConocoPhillips Company. (Flown: Summer 2009). 12 in. High Resolution Orthoimagery. Projected coordinate system name: NAD\_1983\_StatePlane\_New\_Mexico\_West\_FIPS\_3003\_Feet.

Provided as tiled .tiff images and indexed using polygon index layer.

## BP America GCU 135 (F) Sec 26 – T29N – R13W San Juan County, New Mexico API: 30-045-07885

### Summary Record of Impact Remediation

<u>October 11, 2019</u> Soils impacted with hydrocarbons were encountered during closure of a 95 barrel below grade tank. Analytical laboratory testing of impacted soils immediately below the BGT at the 5' depth reported total petroleum hydrocarbons (TPH) at 162 ppm, total BTEX at non-detect (ND) and chlorides at 100 ppm. A sample collected outside the BGT footprint at the 3' depth on dense sandstone reported TPH at 3,540 ppm.

Site closure standard determined at 100 ppm TPH, 50 ppm total BTEX (with 10 ppm benzene) and 600 ppm Chlorides based on:

Horizontal Distance to Dry Water Course < 300 feet Distance to Nearest Water Well > 1,000 feet Depth to Groundwater >100 feet

October 29, 2019 Initiate removal of impacts via excavation and transportation to JFJ commercial landfarm in San Juan County, NM

<u>November 4, 2019</u> Conduct closure sampling on base and eastern extent of excavation, with analytical results as follows:

Sample ID	5-pt Comp. Depths	Time	Field OVM (ppm)	BTEX (mg/Kg)	Benzene (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH MRO (mg/Kg)	TPH (GRO +DRO) (mg/Kg)	TPH Total (mg/Kg)	Cl- (mg/Kg)
Base 1	12'	12:00	1.1	ND	ND	ND	ND	ND	ND	ND	133
Base 2	12'	12:11	0.5	ND	ND	ND	ND	ND	ND	ND	75.3
Base 3	12'	12:17	0.2	ND	ND	ND	ND	ND	ND	ND	134
Base 4	12'	12:20	0.3	ND	ND	ND	ND	ND	ND	ND	178
Base 5	12'	12:23	1.7	ND	ND	ND	ND	ND	ND	ND	131
Base 6	12'	12:26	1.5	ND	ND	ND	ND	ND	ND	ND	85.9
Base 7	12'	12:31	1.0	ND	ND	ND	ND	ND	ND	ND	137
Sidewall 1	3'-10'	12:41	1.1	ND	ND	ND	ND	ND	ND	ND	161
Sidewall 2	3'-10'	12:45	0.6	ND	ND	ND	ND	ND	ND	ND	79.6
Sidewall 3	3'-10'	12:48	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Sidewall 4	3'-10'	12:53	1.0	ND	ND	ND	ND	ND	ND	ND	74.2
Sidewall 5	3'-10'	12:57	1.6	ND	ND	ND	ND	ND	ND	ND	163
Sidewall 6	3'-10'	13:00	1.7	ND	ND	ND	ND	ND	ND	ND	95.4
Sidewall 7	3'-10'	13:05	1.2	ND	ND	ND	ND	ND	ND	ND	77.9
			Standard:	50	10					100	600

### Closure Sampling Test Results November 4, 2019

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November 5, 2019 Continue removal of impacts via excavation and transportation to JFJ commercial landfarm

<u>November 8, 2019</u> Conduct final closure sampling on base and western extent of excavation, with analytical results as follows:

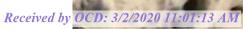
Sample ID	5-pt Comp. Depths	Time	Field OVM (ppm)	BTEX (mg/Kg)	Benzene (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH MRO (mg/Kg)	TPH (GRO +DRO) (mg/Kg)	TPH Total (mg/Kg)	Cl- (mg/Kg)
Base 8	10'	12:00	0.5	ND	ND	ND	ND	ND	ND	ND	62.5
Base 9	10'	12:11	25.4	ND	ND	ND	ND	ND	ND	ND	127
Base 10	10'	12:17	24.7	ND	ND	ND	ND	ND	ND	ND	120
Base 11	10'	12:20	19.6	ND	ND	ND	ND	ND	ND	ND	73.4
Sidewall 8	3'-9'	12:41	0.1	ND	ND	ND	ND	ND	ND	ND	20.6
Sidewall 9	3'-9'	12:45	0.1	ND	ND	ND	ND	ND	ND	ND	ND
Sidewall 10	3'-9'	12:48	14.0	ND	ND	ND	ND	ND	ND	ND	71.7
Sidewall 11	3'-9'	12:53	52.6	ND	ND	ND	ND	ND	ND	ND	100
Sidewall 12	3'-9'	12:57	5.1	ND	ND	ND	ND	ND	ND	ND	127
			Standard:	50	10					100	600

## Closure Sampling Test Results November 8, 2019

November 13, 2019 Complete backfilling remedial excavation with clean imported soils.

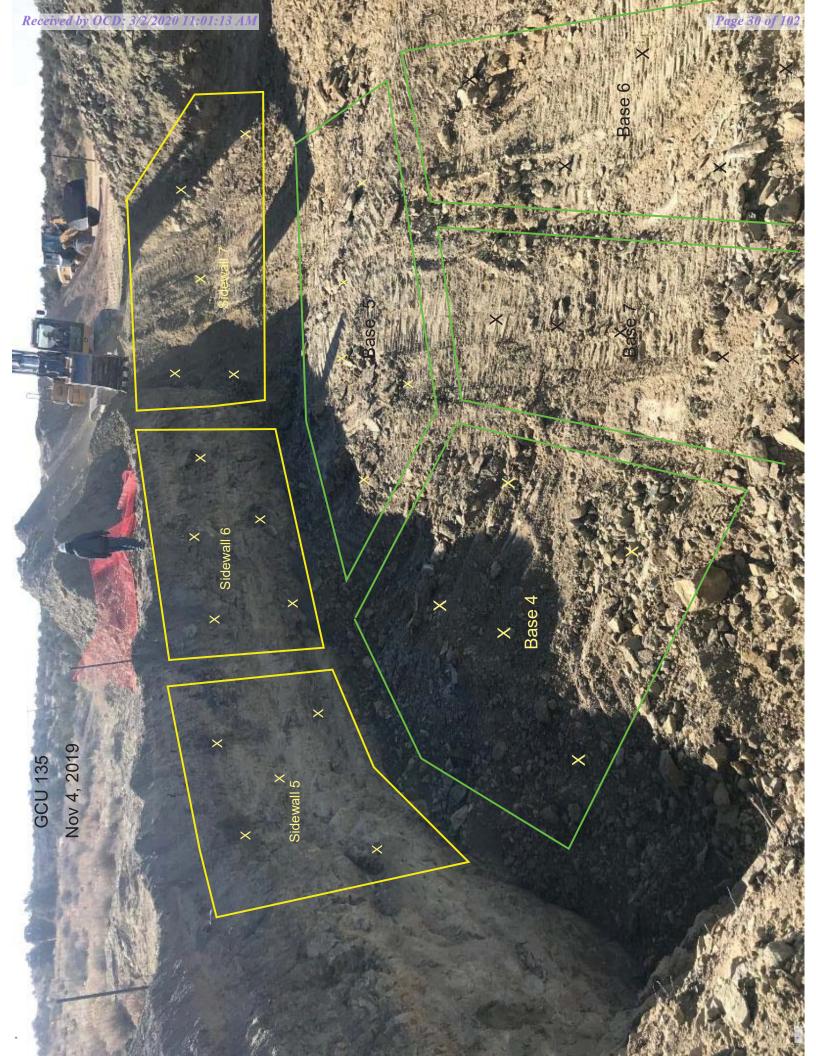
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# EXCAVATION CLOSURE FIGURES AND PHOTO'S











Sidew

Sidewall

×

GCU 135 November 7, 2019





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**Excavation Closure Notifications** 

### **Steven Moskal**

From:	Erin Dunman
Sent:	Thursday, October 31, 2019 3:44 PM
То:	Smith, Cory, EMNRD (Cory.Smith@state.nm.us)
Cc:	Sabre Beebe (BPX); Steven Moskal; Jeff Blagg (jeffcblagg@aol.com); 'Nelson Velez'
Subject:	Re: GCU 135 subsequent sampling

Cory Sampling has been rescheduled for Monday.

Erin

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From: Erin Dunman
Sent: Tuesday, October 29, 2019 7:47:24 AM
To: Smith, Cory, EMNRD (Cory.Smith@state.nm.us) <Cory.Smith@state.nm.us>
Cc: Sabre Beebe (BPX) <Sabre.Beebe@BPX.COM>; Steven Moskal <Steven.Moskal@BPX.COM>; Jeff Blagg
(jeffcblagg@aol.com) <jeffcblagg@aol.com>; 'Nelson Velez' <blagg\_njv@yahoo.com>
Subject: GCU 135 subsequent sampling

Cory BP plans to perform subsequent sampling at the GCU 135 at 10AM on Thursday, October 31.

Erin

Erin Dunman

Environmental Coordinator BP America Production Co. bpx energy - WBU 1199 Main Ave. | Suite 101| Durango | CO | 81301 Cell: 832-609-7048 Office: 281-810-2578 Erin.Dunman@bpx.com



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## **Steven Moskal**

From:	Powell, Brandon, EMNRD <brandon.powell@state.nm.us></brandon.powell@state.nm.us>
Sent:	Monday, November 4, 2019 11:00 AM
То:	Steven Moskal
Subject:	RE: GCU 135 subsequent sampling

Just FYI Steve,

Erin should have gotten an auto response back from Cory's email on Thursday directing operators to send the notices to me. Theoretically I just received the notice today for today's sampling.

Please continue with the sampling but if there are any others please let me know ASAP.

Thank You

Brandon Powell Office: (505) 334-6178 ext. 111 "He who wishes to gain knowledge is wiser than he who thinks he has knowledge (unknown)"

From: Steven Moskal <Steven.Moskal@BPX.COM>
Sent: Monday, November 4, 2019 10:41 AM
To: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: Erin Dunman <erin.dunman@bpx.com>; Blagg, Jefferey <jeffcblagg@aol.com>
Subject: [EXT] FW: GCU 135 subsequent sampling

Brandon – for your notification. I just saw that Cory is out of office.

Thanks,

Steve Moskal Environmental Coordinator BP America Production Co. bpx energy - WBU 1199 Main Ave. | Suite 101 Durango | CO | 81301

Direct: 505.330.9179 steven.moskal@bpx.com



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### **Steven Moskal**

From:	Steven Moskal
Sent:	Tuesday, November 5, 2019 10:37 AM
То:	Powell, Brandon, EMNRD; Smith, Cory, EMNRD
Cc:	Erin Dunman; Blagg, Jefferey; Sabre Beebe (BPX)
Subject:	Re: GCU 135 Sampling Notification 11/7

Thanks Brandon. The API is 30-045-07885. Fee surface.

Steve Moskal Environmental Coordinator BP San Juan (505) 330-9179 steven.moskal@bpx.com

Sent from my mobile device

From: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Sent: Tuesday, November 5, 2019 10:20:30 AM
To: Steven Moskal <Steven.Moskal@BPX.COM>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Erin Dunman <erin.dunman@bpx.com>; Blagg, Jefferey <jeffcblagg@aol.com>; Sabre Beebe (BPX)
<Sabre.Beebe@BPX.COM>
Subject: RE: GCU 135 Sampling Notification 11/7

Sounds good, go ahead and schedule it for that time. If we make it great if not please proceed. Can you also please provide the API#

Thank You

Brandon Powell Office: (505) 334-6178 ext. 111 "He who wishes to gain knowledge is wiser than he who thinks he has knowledge (unknown)"

From: Steven Moskal <Steven.Moskal@BPX.COM>
Sent: Tuesday, November 5, 2019 9:27 AM
To: Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Erin Dunman <erin.dunman@bpx.com>; Blagg, Jefferey <jeffcblagg@aol.com>; Sabre Beebe (BPX)
<Sabre.Beebe@BPX.COM>
Subject: [EXT] GCU 135 Sampling Notification 11/7

Brandon,

BP plans to sample the available excavation on Thursday, 11/7, at noon. We are flexible if needed to shift later in the day to meet your schedule. Please let me know if we need to adjust.

This is sent on behalf for Erin, as she is in training today.

Thank you,

.

Steve Moskal Environmental Coordinator BP San Juan (505) 330-9179 <u>steven.moskal@bpx.com</u>

Sent from my mobile device

•

## **Steven Moskal**

From:	Smith, Cory, EMNRD <cory.smith@state.nm.us></cory.smith@state.nm.us>
Sent:	Monday, November 4, 2019 10:12 AM
То:	Steven Moskal
Subject:	Automatic reply: GCU 135 subsequent sampling

Hello,

I am out of the office on PTO starting Oct 30, 2019 and will return Nov 12, 2019

If you need immediate Assistance Please contact the office at 334-6178 Or my Cell Phone 418-2687 or Brandon Powell (ext 116)

During this time If you are sending notifications for Soil samples, BGT/Pit closures, or any other notification please also send them to Brandon Powell.

Regards,

Cory

From: Steven Moskal
Sent: Monday, November 4, 2019 10:11 AM
To: Erin Dunman <<u>erin.dunman@bpx.com</u>>; Smith, Cory, EMNRD (<u>Cory.Smith@state.nm.us</u>) <<u>Cory.Smith@state.nm.us</u>>
Cc: Sabre Beebe (BPX) <<u>Sabre.Beebe@BPX.COM</u>>; Jeff Blagg (jeffcblagg@aol.com) <jeffcblagg@aol.com>; 'Nelson Velez'
Subject: RE: GCU 135 subsequent sampling

We are shooting for noon today. Just wanted too be sure this was not forgotten.

Thanks!

Steve Moskal Environmental Coordinator BP America Production Co. bpx energy - WBU 1199 Main Ave. | Suite 101 Durango | CO | 81301

Direct: 505.330.9179 steven.moskal@bpx.com



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From: Erin Dunman
Sent: Thursday, October 31, 2019 3:44 PM
To: Smith, Cory, EMNRD (Cory.Smith@state.nm.us) <Cory.Smith@state.nm.us>
Cc: Sabre Beebe (BPX) <Sabre.Beebe@BPX.COM>; Steven Moskal <Steven.Moskal@BPX.COM>; Jeff Blagg
(jeffcblagg@aol.com) <jeffcblagg@aol.com>; 'Nelson Velez' <blagg\_njv@yahoo.com>
Subject: Re: GCU 135 subsequent sampling

Cory Sampling has been rescheduled for Monday.

Erin

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From: Erin Dunman
Sent: Tuesday, October 29, 2019 7:47:24 AM
To: Smith, Cory, EMNRD (Cory.Smith@state.nm.us) <Cory.Smith@state.nm.us>
Cc: Sabre Beebe (BPX) <Sabre.Beebe@BPX.COM>; Steven Moskal <Steven.Moskal@BPX.COM>; Jeff Blagg
(jeffcblagg@aol.com) <jeffcblagg@aol.com>; 'Nelson Velez' <blagg\_njv@yahoo.com>
Subject: GCU 135 subsequent sampling

BP plans to perform subsequent sampling at the GCU 135 at 10AM on Thursday, October 31.

Erin

#### Erin Dunman

Environmental Coordinator BP America Production Co. bpx energy - WBU 1199 Main Ave. | Suite 101| Durango | CO | 81301 Cell: 832-609-7048 Office: 281-810-2578 Erin.Dunman@bpx.com



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# EXCAVATION CLOSURE LABORATORY REPORTS



# **Analytical Report**

## **Report Summary**

Client: BP America Production Co.

Samples Received: 11/4/2019 Job Number: 03143-0424 Work Order: P911007 Project Name/Location: GCU 135

Walter Hinkow

Date: 11/6/19

Report Reviewed By:

Walter Hinchman, Laboratory Director



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24 Hour Emergency Response Phone (800) 362-1879

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Page 1 of 23



BP America Production Co.	Project Name:	GCU 135	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Sabre Beebe	11/06/19 14:09

## **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Base 1	P911007-01A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Base 2	P911007-02A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Base 3	P911007-03A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Base 4	P911007-04A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Base 5	P911007-05A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Base 6	P911007-06A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Base 7	P911007-07A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Sidewall 1	P911007-08A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Sidewall 2	P911007-09A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Sidewall 3	P911007-10A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Sidewall 4	P911007-11A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Sidewall 5	P911007-12A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Sidewall 6	P911007-13A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.
Sidewall 7	P911007-14A	Soil	11/04/19	11/04/19	Glass Jar, 4 oz.

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BP America Production Co.	Projec	t Name:	GCU	J 135					
PO Box 22024	Projec	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Projec	t Manager:	Sabr	e Beebe				11/06/19 14:0	)9
			Base 1						
			07-01 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/04/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/04/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50	-200	1945009	11/04/19	11/04/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.1 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	133	20.0	mg/kg	1	1945010	11/04/19	11/04/19	EPA 300.0/9056A	

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BP America Production Co.	Projec	et Name:	GCU	J 135					
PO Box 22024	Projec	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Projec	et Manager:	Sabro	e Beebe				11/06/19 14:0	)9
		-	Base 2						
			07-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/04/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/04/19	EPA 8015D	
Surrogate: n-Nonane		89.0 %	50	-200	1945009	11/04/19	11/04/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.2 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	75.3	20.0	mg/kg	1	1945010	11/04/19	11/04/19	EPA 300.0/9056A	

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BP America Production Co.	Project	t Name:	GCU	135					
PO Box 22024	Project	Project Number:		3-0424		<b>Reported:</b>			
Tulsa OK, 74121-2024	Project	t Manager:	Sabr	e Beebe				11/06/19 14:09	
			Base 3						
			07-03 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		96.8 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.2 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	134	20.0	mg/kg	1	1945010	11/04/19	11/04/19	EPA 300.0/9056A	

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BP America Production Co.	Projec	t Name:	GCU	135					
PO Box 22024	Projec	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Projec	t Manager:	Sabro	e Beebe				11/06/19 14:0	)9
		-	Base 4						
			07-04 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	50-	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		98.2 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.9 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	178	20.0	mg/kg	1	1945010	11/04/19	11/04/19	EPA 300.0/9056A	

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BP America Production Co.	Projec	t Name:	GCU	J 135					
PO Box 22024	Projec	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Projec	t Manager:	Sabro	e Beebe				11/06/19 14:0	)9
			Base 5						
			07-05 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		98.7 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.0 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	131	20.0	mg/kg	1	1945010	11/04/19	11/04/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401



BP America Production Co.	Projec	t Name:	GCU	J 135					
PO Box 22024	Projec	Project Number:		3-0424		Reported:			
Tulsa OK, 74121-2024	Projec	t Manager:	Sabr	e Beebe		11/06/19 14:09			
		-	Base 6						
			07-06 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		98.7 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.0 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	85.9	20.0	mg/kg	1	1945010	11/04/19	11/04/19	EPA 300.0/9056A	

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BP America Production Co.	Project	t Name:	GCU	J 135					
PO Box 22024	Project	t Number:	0314	3-0424		Reported:			
Tulsa OK, 74121-2024	Project	t Manager:	Sabr	e Beebe		11/06/19 14:0	09		
		-	Base 7						
			07-07 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	137	20.0	mg/kg	1	1945010	11/04/19	11/05/19	EPA 300.0/9056A	

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BP America Production Co.	Projec	t Name:	GCU	135					
PO Box 22024	Projec	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Project Manager: Sabre Beebe							11/06/19 14:	09
		Si	dewall 1						
			07-08 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		85.3 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	161	20.0	mg/kg	1	1945010	11/04/19	11/05/19	EPA 300.0/9056A	

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BP America Production Co.	Projec	et Name:	GCU	J 135					
PO Box 22024	Projec	et Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Projec	et Manager:	Sabro	e Beebe				11/06/19 14:0	09
		Si	dewall 2	2					
			07-09 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		97.9 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	79.6	20.0	mg/kg	1	1945010	11/04/19	11/05/19	EPA 300.0/9056A	

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BP America Production Co.	Project	t Name:	GCU	J 135					
PO Box 22024	Project	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Project	t Manager:	Sabr	e Beebe				11/06/19 14:0	)9
		Si	dewall 3	;					
			07-10 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		100 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.9 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1945010	11/04/19	11/05/19	EPA 300.0/9056A	

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BP America Production Co.	Project	t Name:	GCU	135					
PO Box 22024	Project	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Project	t Manager:	Sabro	e Beebe				11/06/19 14:0	)9
		Si	dewall 4						
			07-11 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OH	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		99.5 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	50-	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	74.2	20.0	mg/kg	1	1945010	11/04/19	11/05/19	EPA 300.0/9056A	

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BP America Production Co.	Project	t Name:	GCU	135					
PO Box 22024	Project	Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Project	Manager:	Sabro	e Beebe				11/06/19 14:	09
		Si	dewall 5	;					
			07-12 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		98.7 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	163	20.0	mg/kg	1	1945010	11/04/19	11/05/19	EPA 300.0/9056A	

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BP America Production Co.	Projec	t Name:	GCU	J 135					
PO Box 22024	Projec	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Projec	t Manager:	Sabro	e Beebe				11/06/19 14:0	)9
		Si	dewall 6	j					
			07-13 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	95.4	20.0	mg/kg	1	1945010	11/04/19	11/05/19	EPA 300.0/9056A	

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BP America Production Co.	Projec	t Name:	GCU	135					
PO Box 22024	Projec	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Projec	t Manager:	Sabr	e Beebe				11/06/19 14:0	)9
		Si	dewall 7	,					
			07-14 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50	-150	1945008	11/04/19	11/05/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945009	11/04/19	11/05/19	EPA 8015D	
Surrogate: n-Nonane		101 %	50	-200	1945009	11/04/19	11/05/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945008	11/04/19	11/05/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	50	-150	1945008	11/04/19	11/05/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	77.9	20.0	mg/kg	1	1945010	11/04/19	11/05/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401



BP America Production Co.	Project Name:	GCU 135	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Sabre Beebe	11/06/19 14:09

#### Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1945008 - Purge and Trap EPA 5030A										
Blank (1945008-BLK1)				Prepared:	11/04/19 1 A	analyzed: 1	1/05/19 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
o,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.85		"	8.00		98.1	50-150			
LCS (1945008-BS1)				Prepared:	11/04/19 1 A	analyzed: 1	1/05/19 1			
Benzene	5.10	0.0250	mg/kg	5.00		102	70-130			
Foluene	5.19	0.0250	"	5.00		104	70-130			
Ethylbenzene	5.12	0.0250	"	5.00		102	70-130			
o,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
-Xylene	5.09	0.0250	"	5.00		102	70-130			
Total Xylenes	15.3	0.0250	"	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.09		"	8.00		101	50-150			
Matrix Spike (1945008-MS1)	Sou	ırce: P911007-	01	Prepared:	11/04/19 1 A	analyzed: 1	1/05/19 1			
Benzene	5.02	0.0250	mg/kg	5.00	ND	100	54.3-133			
Foluene	5.15	0.0250	"	5.00	ND	103	61.4-130			
Ethylbenzene	5.11	0.0250	"	5.00	ND	102	61.4-133			
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131			
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.2	0.0250	"	15.0	ND	102	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.26		"	8.00		103	50-150			
Matrix Spike Dup (1945008-MSD1)	Sou	ırce: P911007-	01	Prepared:	11/04/19 1 A	analyzed: 1	1/05/19 2			
Benzene	5.12	0.0250	mg/kg	5.00	ND	102	54.3-133	1.95	20	
Toluene	5.22	0.0250	"	5.00	ND	102	61.4-130	1.33	20	
Ethylbenzene	5.16	0.0250	"	5.00	ND	103	61.4-133	1.09	20	
o,m-Xylene	10.3	0.0500	"	10.0	ND	103	63.3-131	1.06	20	
-Xylene	5.14	0.0250	"	5.00	ND	103	63.3-131	1.32	20	
Total Xylenes	15.4	0.0250	"	15.0	ND	103	63.3-131	1.15	20	
Surrogate: 4-Bromochlorobenzene-PID	8.25		"	8.00		103	50-150			
anogate. , Bromoentorobenzene i ib	0.20			0.00		105	50 150			

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BP America Production Co.	Project Name:	GCU 135	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Sabre Beebe	11/06/19 14:09

#### Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

#### **Envirotech Analytical Laboratory** Reporting Spike Source %REC RPD Analyte Result Limit Units Level Result %REC Limits RPD Limit Notes Batch 1945009 - DRO Extraction EPA 3570 Blank (1945009-BLK1) Prepared: 11/04/19 1 Analyzed: 11/04/19 2 Diesel Range Organics (C10-C28) ND 25.0 mg/kg Oil Range Organics (C28-C40) ND 50.0 46.7 .. 93.4 50-200 Surrogate: n-Nonane 50.0 LCS (1945009-BS1) Prepared: 11/04/19 1 Analyzed: 11/04/19 2 Diesel Range Organics (C10-C28) 457 25.0 500 91.4 38-132 mg/kg Surrogate: n-Nonane 45.5 " 50.0 91.1 50-200 Matrix Spike (1945009-MS1) Source: P911007-01 Prepared: 11/04/19 1 Analyzed: 11/04/19 2 Diesel Range Organics (C10-C28) 480 25.0 500 ND 96.0 38-132 mg/kg 50.3 101 Surrogate: n-Nonane 50.0 50-200 Matrix Spike Dup (1945009-MSD1) Source: P911007-01 Prepared: 11/04/19 1 Analyzed: 11/04/19 2 Diesel Range Organics (C10-C28) 508 25.0 500 ND 102 38-132 5.66 20 mg/kg Surrogate: n-Nonane 51.8 " 50.0 104 50-200

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BP America Production Co.	Project Name:	GCU 135	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Sabre Beebe	11/06/19 14:09

#### Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory										
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1945008 - Purge and Trap EPA 5030A										
Blank (1945008-BLK1)				Prepared: 1	1/04/19 1 A	Analyzed: 1	1/05/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		"	8.00		86.6	50-150			
LCS (1945008-BS2)				Prepared: 1	1/04/19 1 A	Analyzed: 1	1/05/19 2			
Gasoline Range Organics (C6-C10)	49.4	20.0	mg/kg	50.0		98.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.92		"	8.00		86.5	50-150			
Matrix Spike (1945008-MS2)	Sourc	e: P911007-0	01	Prepared: 1	1/04/19 1 A	Analyzed: 1	1/06/19 1			
Gasoline Range Organics (C6-C10)	47.3	20.0	mg/kg	50.0	ND	94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.86		"	8.00		85.8	50-150			
Matrix Spike Dup (1945008-MSD2)	Sourc	ce: P911007-0	01	Prepared: 1	1/04/19 1 A	Analyzed: 1	1/05/19 2			
Gasoline Range Organics (C6-C10)	49.2	20.0	mg/kg	50.0	ND	98.4	70-130	4.01	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		"	8.00		86.1	50-150			

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BP America Production Co.	Project Name:	GCU 135	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Sabre Beebe	11/06/19 14:09

### Anions by 300.0/9056A - Quality Control

#### **Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1945010 - Anion Extraction EPA 3	00.0/9056A									
Blank (1945010-BLK1)				Prepared: 1	1/04/19 1 A	Analyzed: 1	1/05/19 0			
Chloride	ND	20.0	mg/kg							
LCS (1945010-BS1)				Prepared: 1	1/04/19 1 A	Analyzed: 1	1/05/19 0			
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (1945010-MS1)	Sour	ce: P911007-	01	Prepared: 1	1/04/19 1 A	Analyzed: 1	1/05/19 0			
Chloride	377	20.0	mg/kg	250	133	97.5	80-120			
Matrix Spike Dup (1945010-MSD1)	Sour	ce: P911007-	01	Prepared: 1	1/04/19 1 A	Analyzed: 1	1/05/19 0			
Chloride	360	20.0	mg/kg	250	133	91.0	80-120	4.35	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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BP America Production Co.	Project Name:	GCU 135	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Sabre Beebe	11/06/19 14:09

#### **Notes and Definitions**

ND Analyte NOT DETECTED	• at or above the reporting limit
-------------------------	-----------------------------------

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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# Project Information

Chain of Custody

Page\_\_\_

Report Attention         Report Attention         Bab Woff         Jab W	35       Report du         26       Report du         26       Report du         26       Report du         27       Attention:         28       Report du         29       Containers         29       Containers         20       RAK         21       RAK         22       Report du         23       Report du         24       Report du         25       RAK         26       RAK         27       RAK         28       R         28       R         29       CouthACT I SABRE         28       R         28       R         29       CouthACT I SABRE         29       CouthACT I SABRE         21       Receive         21       Receive         22       Receive         23       Receive         24       Receive         24       Receive         25       Receive         26       Receive         27       Receive         28       Receive         29       Receive </th <th>Lab Use Only TAT EPA Program</th> <th>Job Number 1D 3D RCRA CWA SDWA</th> <th>Analysis and Method State</th> <th>WN</th> <th>×</th> <th>010</th> <th>Metals 6</th> <th>v</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days.</th> <th>Received on ice:</th> <th>11 12</th> <th>G Temp °C</th> <th>Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable is limited to the amount paid for on the report.</th> <th>and a similar dama international second</th>	Lab Use Only TAT EPA Program	Job Number 1D 3D RCRA CWA SDWA	Analysis and Method State	WN	×	010	Metals 6	v									Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days.	Received on ice:	11 12	G Temp °C	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable is limited to the amount paid for on the report.	and a similar dama international second
BEAGT         Report Attention         Report Attention         Lab           BEERE         Attention: Soft Sate Faul Drumm, Serve         Lab           Address:         City. State. Zip         Number         Lab           City. State. Zip         Number         Number         Number           Phone:         BASE         Attention:         Sate / Attention         Number           City. State         Number         Number         Number         Number           Phone:         BASE         Attention         Number         Number           BASE         Address:         Signal         Number         Number           BASE         Address         Signal         Number         Number           BASE         Address         Signal         Number         Number           BASE         But         Address         Signal         Number         Nu	35       Report du         26       Attention:         26       Attention:         26       Attention:         26       Attention:         27       Attention:         28       Attention:         29       Cantainers         21       BASE         23       Attention:         24       Attention:         25       Attention:         26       Attention:         27       BASE         28       Attention:         28       Attention:         28       Attention:         29       Cauthoff i SABRE         28       Attention wave that ampering with or         31       Attention: Sample I an aware that ampering with or         4       Attention: Sample I an aware that ampering with or         4       Attention: And and may be grounds for legal action. Sample Arc         4       Attention: And and may be grounds for legal action. Sample Arc         4       Attent resource ounds or legal action. Sample Arc         5       Attention of and may be grounds for legal action. Sample Arc         6       Attention of action of act	La La	HOW CH				)8 yd O	80/08	×			-			-		-		Time 1438	Time	Time	pe: <b>g -</b> glass, disposed of at tl	
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# Project Information

Project: Client:

Project Manager: SABRE

City, State, Zip Address:

Phone:

Email:

Sampled

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labadmin@envirotech-inc.com envirotech-inc.com

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Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable

to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Relinquished by: (Signature)

(field sampler), attest to the validity and authenticity of t time of collection is considered fraud and may be grounds

Relinquished by: (Signature) Relinguished by: (Signature)

Additional Instructions:

24 Hour Emergency Response Phone (800) 362-1879 5796 US Highway 64, Farmington, NM 87401

envirotech Analytical Laboratory

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# **Analytical Report**

## **Report Summary**

Client: BP America Production Co.

Samples Received: 11/7/2019 Job Number: 03143-0424 Work Order: P911023 Project Name/Location: GCU 135

Walter Hinkorn

Date: 11/11/19

Report Reviewed By:

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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BP America Production Co.	Project Name:	GCU 135	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Sabre Beebe	11/11/19 14:58

## **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Base 8	P911023-01A	Soil	11/07/19	11/07/19	Glass Jar, 4 oz.
Base 9	P911023-02A	Soil	11/07/19	11/07/19	Glass Jar, 4 oz.
Base 10	P911023-03A	Soil	11/07/19	11/07/19	Glass Jar, 4 oz.
Base 11	P911023-04A	Soil	11/07/19	11/07/19	Glass Jar, 4 oz.
Sidewall 8	P911023-05A	Soil	11/07/19	11/07/19	Glass Jar, 4 oz.
Sidewall 9	P911023-06A	Soil	11/07/19	11/07/19	Glass Jar, 4 oz.
Sidewall 10	P911023-07A	Soil	11/07/19	11/07/19	Glass Jar, 4 oz.
Sidewall 11	P911023-08A	Soil	11/07/19	11/07/19	Glass Jar, 4 oz.
Sidewall 12	P911023-09A	Soil	11/07/19	11/07/19	Glass Jar, 4 oz.

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BP America Production Co.	Projec	t Name:	GCU	J 135					
PO Box 22024	Projec	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Projec	t Manager:	Sabro	e Beebe				11/11/19 14:	58
			Base 8						
		P9110	23-01 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50	-150	1945032	11/07/19	11/07/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Surrogate: n-Nonane		98.7 %	50	-200	1945033	11/07/19	11/07/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.7 %	50	-150	1945032	11/07/19	11/07/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	62.5	20.0	mg/kg	1	1945036	11/07/19	11/07/19	EPA 300.0/9056A	

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BP America Production Co.	Project	t Name:	GCU	135					
PO Box 22024	Project	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Project	t Manager:	Sabro	e Beebe				11/11/19 14::	58
			Base 9						
		P9110	23-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50	-150	1945032	11/07/19	11/07/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Surrogate: n-Nonane		99.4 %	50	-200	1945033	11/07/19	11/07/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.9 %	50	-150	1945032	11/07/19	11/07/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	127	20.0	mg/kg	1	1945036	11/07/19	11/07/19	EPA 300.0/9056A	

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BP America Production Co.	Projec	t Name:	GCU	J 135					
PO Box 22024	Projec	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Projec	t Manager:	Sabr	e Beebe				11/11/19 14::	58
		I	Base 10						
			23-03 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50	-150	1945032	11/07/19	11/07/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Surrogate: n-Nonane		95.5 %	50	-200	1945033	11/07/19	11/07/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.0 %	50	-150	1945032	11/07/19	11/07/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	120	20.0	mg/kg	1	1945036	11/07/19	11/07/19	EPA 300.0/9056A	

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BP America Production Co.	Projec	t Name:	GCU	J 135					
PO Box 22024	Projec	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Projec	t Manager:	Sabr	e Beebe				11/11/19 14:	58
		I	Base 11						
			23-04 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50	-150	1945032	11/07/19	11/07/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Surrogate: n-Nonane		98.5 %	50	-200	1945033	11/07/19	11/07/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.3 %	50	-150	1945032	11/07/19	11/07/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	73.4	20.0	mg/kg	1	1945036	11/07/19	11/07/19	EPA 300.0/9056A	

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BP America Production Co.	Projec	t Name:	GCU	135					
PO Box 22024	Projec	t Number:	0314	3-0424				Reported:	
Tulsa OK, 74121-2024	Projec	et Manager:	Sabr	e Beebe				11/11/19 14:	58
		Si	dewall 8	;					
			23-05 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50	-150	1945032	11/07/19	11/07/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Surrogate: n-Nonane		96.2 %	50	-200	1945033	11/07/19	11/07/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945032	11/07/19	11/07/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.2 %	50	-150	1945032	11/07/19	11/07/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	20.6	20.0	mg/kg	1	1945036	11/07/19	11/07/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401



BP America Production Co.	Project	t Name:	GCU	J 135					
PO Box 22024	Project	t Number:	0314	3-0424				<b>Reported:</b>	
Tulsa OK, 74121-2024	Project	t Manager:	Sabro	e Beebe				11/11/19 14::	58
		Si	dewall 9	)					
			23-06 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %	50	-150	1945032	11/07/19	11/08/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	80								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Surrogate: n-Nonane		97.9 %	50	-200	1945033	11/07/19	11/07/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		81.9 %	50	-150	1945032	11/07/19	11/08/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	100	mg/kg	5	1945036	11/07/19	11/07/19	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401



BP America Production Co.	Project	Name:	GCU	135					
PO Box 22024	Project	Number:	0314	3-0424				<b>Reported:</b>	
Tulsa OK, 74121-2024	Project	Manager:	Sabro	e Beebe		11/11/19 14:58			
		Sic	lewall 1	0					
			23-07 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50	-150	1945032	11/07/19	11/08/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Surrogate: n-Nonane		97.7 %	50	-200	1945033	11/07/19	11/07/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.4 %	50	-150	1945032	11/07/19	11/08/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	71.7	20.0	mg/kg	1	1945036	11/07/19	11/07/19	EPA 300.0/9056A	

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BP America Production Co.	Project	Name:	GCU	J 135					
PO Box 22024	Project	Number:	0314	03143-0424				Reported:	
Tulsa OK, 74121-2024	Project	Manager:	Sabre Beebe					11/11/19 14::	58
		Sic	lewall 1	1					
			23-08 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-	-150	1945032	11/07/19	11/08/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Surrogate: n-Nonane		95.6 %	50	-200	1945033	11/07/19	11/07/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		82.1 %	50	-150	1945032	11/07/19	11/08/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	100	20.0	mg/kg	1	1945036	11/07/19	11/07/19	EPA 300.0/9056A	

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BP America Production Co.	Project Name:		GCU	135					
PO Box 22024	Projec	t Number:	0314	3-0424				<b>Reported:</b>	
Tulsa OK, 74121-2024	Projec	t Manager:	Sabr	e Beebe			11/11/19 14:58		
		Sic	lewall 12	2					
			23-09 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50	-150	1945032	11/07/19	11/08/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1945033	11/07/19	11/07/19	EPA 8015D	
Surrogate: n-Nonane		99.2 %	50	-200	1945033	11/07/19	11/07/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1945032	11/07/19	11/08/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.0 %	50	-150	1945032	11/07/19	11/08/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	127	20.0	mg/kg	1	1945036	11/07/19	11/07/19	EPA 300.0/9056A	

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BP America Production Co.	Project Name:	GCU 135	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Sabre Beebe	11/11/19 14:58

#### Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1945032 - Purge and Trap EPA 5030A										
Blank (1945032-BLK1)				Prepared:	11/07/19 0 A	nalyzed: 1	1/07/19 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
o,m-Xylene	ND	0.0500	"							
p-Xylene	ND	0.0250	"							
Fotal Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.48		"	8.00		106	50-150			
LCS (1945032-BS1)				Prepared:	11/07/19 0 A	analyzed: 1	1/07/19 1			
Benzene	4.62	0.0250	mg/kg	5.00		92.3	70-130			
Toluene	4.58	0.0250	"	5.00		91.6	70-130			
Ethylbenzene	4.56	0.0250	"	5.00		91.1	70-130			
o,m-Xylene	9.11	0.0500	"	10.0		91.1	70-130			
-Xylene	4.55	0.0250	"	5.00		91.0	70-130			
Total Xylenes	13.7	0.0250	"	15.0		91.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.54		"	8.00		107	50-150			
Matrix Spike (1945032-MS1)	Sou	rce: P911021-	01	Prepared:	11/07/19 0 A	analyzed: 1	1/07/19 1			
Benzene	4.61	0.0250	mg/kg	5.00	ND	92.1	54.3-133			
Toluene	4.57	0.0250	"	5.00	ND	91.3	61.4-130			
Ethylbenzene	4.55	0.0250	"	5.00	ND	91.0	61.4-133			
o,m-Xylene	9.09	0.0500	"	10.0	ND	90.9	63.3-131			
o-Xylene	4.54	0.0250	"	5.00	ND	90.8	63.3-131			
Total Xylenes	13.6	0.0250	"	15.0	ND	90.8	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.42		"	8.00		105	50-150			
Matrix Spike Dup (1945032-MSD1)	Sou	Irce: P911021-	01	Prepared:	11/07/19 0 A	analyzed: 1	1/07/19 1			
Benzene	4.51	0.0250	mg/kg	5.00	ND	90.2	54.3-133	2.15	20	
Toluene	4.46	0.0250	"	5.00	ND	89.3	61.4-130	2.28	20	
	4.44	0.0250	"	5.00	ND	88.8	61.4-133	2.36	20	
Ethylbenzene		0.0200				88.8				
•		0.0500	"	10.0	ND		03.3-131	2.33	20	
o,m-Xylene	8.88	0.0500 0.0250		10.0 5.00	ND ND		63.3-131 63.3-131	2.33 2.19	20 20	
Ethylbenzene p.m-Xylene p-Xylene Total Xylenes		0.0500 0.0250 0.0250		10.0 5.00 15.0	ND ND ND	88.8 88.8	63.3-131 63.3-131	2.33 2.19 2.28	20 20 20	

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24 Hour Emergency Response Phone (800) 362-1879



BP America Production Co.	Project Name:	GCU 135	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Sabre Beebe	11/11/19 14:58

#### Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

### Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1945033 - DRO Extraction EPA 3570										
Blank (1945033-BLK1)				Prepared:	11/07/19 0 A	Analyzed: 1	1/07/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	54.0		"	50.0		108	50-200			
LCS (1945033-BS1)				Prepared:	11/07/19 0 A	Analyzed: 1	1/07/19 1			
Diesel Range Organics (C10-C28)	484	25.0	mg/kg	500		96.7	38-132			
Surrogate: n-Nonane	51.6		"	50.0		103	50-200			
Matrix Spike (1945033-MS1)	Sou	rce: P911021-	01	Prepared:	11/07/19 0 A	Analyzed: 1	1/07/19 1			
Diesel Range Organics (C10-C28)	507	25.0	mg/kg	500	ND	101	38-132			
Surrogate: n-Nonane	51.5		"	50.0		103	50-200			
Matrix Spike Dup (1945033-MSD1)	Sou	Source: P911021-01			11/07/19 0 4	1/07/19 1				
Diesel Range Organics (C10-C28)	524	25.0	mg/kg	500	ND	105	38-132	3.28	20	
Surrogate: n-Nonane	53.1		"	50.0		106	50-200			

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BP America Production Co.	Project Name:	GCU 135	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Sabre Beebe	11/11/19 14:58

#### Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory										
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1945032 - Purge and Trap EPA 5030A										
Blank (1945032-BLK1)				Prepared: 1	1/07/19 0 A	nalyzed: 1	1/07/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		"	8.00		95.8	50-150			
LCS (1945032-BS2)				Prepared: 1	1/07/19 0 A	nalyzed: 1	1/07/19 1			
Gasoline Range Organics (C6-C10)	56.9	20.0	mg/kg	50.0		114	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		"	8.00		96.4	50-150			
Matrix Spike (1945032-MS2)	Sourc	e: P911021-0	01	Prepared: 1	1/07/19 0 A	nalyzed: 1	1/07/19 1			
Gasoline Range Organics (C6-C10)	57.6	20.0	mg/kg	50.0	ND	115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		"	8.00		96.8	50-150			
Matrix Spike Dup (1945032-MSD2)	Sourc	e: P911021-0	01	Prepared: 1	1/07/19 0 A	nalyzed: 1	1/07/19 1			
Gasoline Range Organics (C6-C10)	56.6	20.0	mg/kg	50.0	ND	113	70-130	1.78	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		"	8.00		96.9	50-150			

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BP America Production Co.	Proje	et Name:	G	CU 135										
PO Box 22024	Proje	et Number:	03	3143-0424		Reported:								
Tulsa OK, 74121-2024	Proje	Project Manager: Sabre Beebe								11/11/19 14:58				
	Anior	ns by 300.(	)/9056A	- Quality	Control									
	Env	virotech A	Analyti	cal Labor	atory									
		Reporting		Spike	Source		%REC		RPD					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes				
Batch 1945036 - Anion Extraction E	PA 300.0/9056A													
Blank (1945036-BLK1)				Prepared &	Analyzed:	11/07/19 1								
Chloride	ND	20.0	mg/kg											
LCS (1945036-BS1)				Prepared &	Analyzed:	11/07/19 1								

		1									
Chloride	253	20.0	mg/kg	250		101	90-110				
Matrix Spike (1945036-MS1)	Source	: P911023-(	01	Prepared &	Analyzed:	11/07/19 1					
Chloride	313	20.0	mg/kg	250	62.5	100	80-120				
Matrix Spike Dup (1945036-MSD1)	Source	: P911023-(	01	Prepared &	Analyzed:	11/07/19 1					
Chloride	310	20.0	mg/kg	250	62.5	99.2	80-120	0.949	20		

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Page 15 of 17



BP America Production Co.	Project Name:	GCU 135	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Sabre Beebe	11/11/19 14:58

#### **Notes and Definitions**

ND Analyte NOT DETECTED	D at or above the reporting limit
-------------------------	-----------------------------------

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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# Project Information

Chain of Custody

of

Page

Client:	BPX EN	ENERGY				Report Attention		Successive		Lab Use Only		TAT	Ē	EPA Program	F
Droiort.	$\sim$	125			Ror	Report due hyr. Nov/ 8 2019	1-1	#UNN		Inh Number	mhar		BCBA	01010	CDM/A
Project N	Project Manager:	SABRE	BEEBE	11	Atto	E BEEBE/G	/ Dette	P O U	1023	0314	03143-0474	N	AND A		FANDE
Address:	1200		2		Add	Address:				Analysis	Analysis and Method	p		State	fe
City, State, Zip	te, Zip				E:	City, State, Zip								NM CO	UT AZ
Phone:					신	Phone:	STO								
Email:					<u>.</u>	Email:	0 p^ 8(	6.5		010				TX OK	
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID			Lab Number	งชุด/อย	VOC py 8	Netals 6				Remarks	arks
0933	172019	Soil	1	BASE	$\omega$			1991	-	1					
0440			1	BASE	8		3								
7490				BASE	01		3								
0855			-	BASE	11		ナ								
1201			-	SIDEWALL	412 8		S								
2201			-	SIDEWALL	n g		9								
1031			-	SIJEWALL	OI TH		4			_					
1034			1	SIDEW9/1	(   )		20		_						
1037	_	_	1	SIDEWall (	J. 12		5								
Addition	Additional Instructions:		BP CONT	BP CONTACT: SABRE BEBE BIL TO PAJE	RE REESE TO Project	ct Ro.				-	-		-		
I, (field sampl time of collec	er), attest to the tion is considere	e validity and a	authenticity of t may be grounds	(field sampler), attest to the validity and authenticity of this sample. I am aware that t time of collection is considered fraud and may be grounds for legal action. Sampled by:	aware that tampe. ampled by:	I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:	Dieg Co			Samples requ received pack	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.	ervation must be temp above 0 bu	received on ice th ut less than 6°C on	ie day they are san subsequent days.	npled or
Relinquish	Relinquished by: (Signature)	ture) {	Date	7/2019	Time 1257	Received by: (Signature)	Date 11/2/19	Time	t	Receive	Received on ice:	Lab Us	Lab Use Only		
Relinguish	Relinguished by: (Signature)	ture)	Date	E	Time	Received by: (Signature)	Date	Time						Ę	
Relinquish	Relinquished by: (Signature)	iture)	Date	F	Time	Received by: (Signature)	Date	Time		AVG Temp °C	mp °C 4				1
Sample Mat	rix: S - Soil, Sd	- Solid, Sg -	Sludge, A - Ac	Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	er		Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA	e: g - gl	ass, p -	poly/plast	ic, ag - amb	er glass, v -	- VOA		
Note: Samp only to thos	les are discard e samples rece	ed 30 days a ived by the	ifter results an laboratory wit	e reported unles th this COC. The	ss other arranger e liability of the la	Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.	urned to client or d ne report.	lisposed o	of at the cli	ent expense.	The report fo	r the analysis	of the above s	amples is appl	cable
U	10	ivi	envirot	00	2796 US I	5796 US Highway 64, Familington, NM 87401			Ph (505	5) 632-1381 F	Ph (505) 632-1881 Fx (505) 632-1865	S.	envire	envirotech-inc.com	
	;	Anal)	rical L	) aborato		24 Hour Emergency Response Phone (300) 302-1379				- included and b	longly		labadmin@en	labadmin@envirotech-inc.com	E

# Received by OCD: 3/2/2020 11:01:13 AM

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# 95 BGT CLOSURE DOCUMENTATION

CLIENT: BPX	P.O. BOX 87, BLO	INEERING, INC. OMFIELD, NM 874 632-1199	413	API #: <b>3004</b> TANK ID (if applicble):	5 078 A	85
FIELD REPORT:	(circle one): BGT CONFIRMATION / REL	EASE INVESTIGATION / OTHER:		PAGE #:	<b>1</b> of	
QUAD/UNITE F SEC: 26 TWP:		M CNTY: SJ ST:		Date Started: Date Finished:	10/ //	/ 19
LEASE #: 55078926A	PROD. FORMATION: DK CONTA	ACTOR: KELLEY 0.7 ACT: BPX-J. BEEL	3E	ENVIRONMENTAL SPECIALIST(S):		JCB)
1) 95 BGT (JULOB)	GPS COORD		DISTANCE/BEAF			
3)	GPS COORD.: GPS COORD.: GPS COORD.:		DISTANCE/BEAF			
4)			DISTANCE/BEAP	RING FROM W.H.:		OVM
2) SAMPLE ID: IMPACT Grad 2 3) SAMPLE ID:	CHAIN OF CUSTODY RECORD(S) # OR LAE         5'       SAMPLE DATE         3'       SAMPLE DATE         SAMPLE DATE	9 SAMPLETIME 0910 LAB ANALY	/SIS: /SIS: /SIS:	B/8021B/300	.0 (CI)	EADING (ppm) 2.2 357
SOIL DESCRIPTION						
CONSISTENCY (NON COHESIVE SOILS): LO MOISTURE: DRY (SLIGHTLY MOIST) MOIST/W SAMPLE TYPE: GRAB (COMPOSITE) DISCOLORATION/STAINING OBSERVED: (YES) N SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: MMOCD / BLM REP(S) (MESSER)	ET / SATURATED / SUPER SATURATED OF PTS. <u>S</u> IO EXPLANATION - <u>ON SANDSTOCK</u> IOST INTEGRITY OF EQUIPMENT: YES DAND/OR OCCURRED : (YES) NO EXPLANATION YES / NO EXPLANATION -	IND EXPLANATION - U.UK ON: Gray Stain on	1 NO EXPLAN of BGT MOWN - 1	lation		
EXCAVATION DIMENSION ESTIMATION:				MATION (Cubic Ya		
DEPTH TO GROUNDWATER: _>100	_ NEAREST WATER SOURCE: >(000 N	EAREST SURFACE WATER 300 <	x <1000	NMOCD TPH CLOSU	RE STD: 25	6 Oppm
SITE SKETCH	BGT Located : off on site	PLOT PLAN circle: att		CALIB. GAS = <u>10</u> 0630 (anyom MISCELL	0 ppm -	
PD-A MARKER	BERG	Area of Stain On Sandstone Su		ermit date(s): CD Appr. date(s): k OVM = Organ	277 c6/08/ c3/07 cVapor Meter er million sible: Y (N)	
APPLICABLE OR NOT AVAILABLE; SW - SINGLI	OW-GRADE TANK LOCATION; SPD = SAMPLE POINT D E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; D	ESIGNATION; R.W. = RETAINING WALL; NA	LL HEAD;	BGT Sidewalls Vis BGT Sidewalls Vis agnetic declinat	sible: Y / N	
NOTES: GOOGLE EARTH IMAGE	RY DATE: 4/6/2019	. ONSITE: 10/1//	19			

BEI1005E-6.SKF

.







October 15, 2019

Sabre Beebe Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: (505) 632-1199 FAX (505) 632-3903

RE: GCU 135

OrderNo.: 1910773

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Sabre Beebe:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/12/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 1910773

Date Reported: 10/15/2019

Hall Environmental	Analysis	Laboratory,	Inc.

	Blagg Engineering GCU 135			-		BGT-5 PC @ 5' /11/2019 9:10:00 AM	
•	1910773-001	Matrix: SOIL	· · · · ·			/12/2019 8:00:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METH	HOD 300.0: ANIONS					Analys	st: CJS
Chloride		100	60	mg/Kg	20	10/14/2019 12:30:53 F	PM 48121
EPA METH	HOD 8015D MOD: GASOI	INE RANGE				Analys	st: DJF
Gasoline I	Range Organics (GRO)	ND	3.2	mg/Kg	1	10/14/2019 11:29:04 A	M G63641
Surr: Bl	FB	97.5	70-130	%Rec	1	10/14/2019 11:29:04 A	M G63641
EPA METH	HOD 8015M/D: DIESEL R	ANGE ORGANICS				Analys	st: BRM
Diesel Ra	nge Organics (DRO)	52	9.5	mg/Kg	1	10/14/2019 10:19:59 A	M 48116
Motor Oil	Range Organics (MRO)	110	48	mg/Kg	1	10/14/2019 10:19:59 A	M 48116
Surr: DI	NOP	109	70-130	%Rec	1	10/14/2019 10:19:59 A	M 48116
EPA METH	HOD 8260B: VOLATILES	SHORT LIST				Analys	st: DJF
Benzene		ND	0.016	mg/Kg	1	10/14/2019 11:29:04 A	M S63641
Toluene		ND	0.032	mg/Kg	1	10/14/2019 11:29:04 A	M S63641
Ethylbenz	ene	ND	0.032	mg/Kg	1	10/14/2019 11:29:04 A	M S63641
Xylenes, 1	Fotal	ND	0.064	mg/Kg	1	10/14/2019 11:29:04 A	M S63641
Surr: 1,	2-Dichloroethane-d4	99.0	70-130	%Rec	1	10/14/2019 11:29:04 A	M S63641
Surr: 4-	Bromofluorobenzene	96.0	70-130	%Rec	1	10/14/2019 11:29:04 A	M S63641
Surr: Di	ibromofluoromethane	98.9	70-130	%Rec	1	10/14/2019 11:29:04 A	M S63641
Surr: To	oluene-d8	104	70-130	%Rec	1	10/14/2019 11:29:04 A	M S63641

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Oualifiers:</b>
--------------------

- \* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
  - Reporting Limit

Page 1 of 5

	lagg Engineering CU 135
Sample ID: MB-4812	SampType: mblk TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 48121 RunNo: 63657
Prep Date: 10/14/2	19         Analysis Date:         10/14/2019         SeqNo:         2176026         Units:         mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5
Sample ID: LCS-481	1 SampType: Ics TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 48121 RunNo: 63657
Prep Date: 10/14/2	19         Analysis Date:         10/14/2019         SeqNo:         2176027         Units:         mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15 1.5 15.00 0 99.2 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

.

#### WO#: 1910773 15-Oct-19

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

	lagg Engineering CU 135
Sample ID: LCS-4811	6 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 48116 RunNo: 63647
Prep Date: 10/14/20	19         Analysis Date:         10/14/2019         SeqNo:         2174624         Units:         mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO	D) 51 10 50.00 0 102 63.9 124
Surr: DNOP	4.9 5.000 97.4 70 130
Sample ID: MB-48116	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 48116 RunNo: 63647
Prep Date: 10/14/20	19         Analysis Date:         10/14/2019         SeqNo:         2174625         Units:         mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO	D) ND 10
Motor Oil Range Organics (N	(RO) ND 50
Surr: DNOP	10 10.00 103 70 130
Sample ID: LCS-4811	2 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 48112 RunNo: 63647
Prep Date: 10/11/20	19         Analysis Date:         10/14/2019         SeqNo:         2175390         Units:         %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.1 5.000 103 70 130
Sample ID: MB-48112	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 48112 RunNo: 63647
Prep Date: 10/11/20	19         Analysis Date:         10/14/2019         SeqNo:         2175391         Units:         %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	11 10.00 115 70 130

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 5

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WO#: 1910773 15-Oct-19

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

	Blagg En GCU 135	gineering									
Sample ID: <b>rb</b>		Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: PBS		Batc	h ID: <b>S6</b>	3641	F	RunNo: 6	3641				
Prep Date:		Analysis [	Date: 10	)/14/2019	S	SeqNo: 2	175836	Units: <b>mg/K</b>	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 1,2-Dichloroethane	e-d4	0.47		0.5000		94.5	70	130			
Surr: 4-Bromofluoroben:	zene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluorometh	hane	0.47		0.5000		93.5	70	130			
Surr: Toluene-d8		0.52		0.5000		104	70	130			
Sample ID: 100ng Ic	s	Samp	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: LCSS		Batch ID: S63641 RunNo: 63641									
Prep Date:		Analysis [	Date: 10	)/14/2019	5	SeqNo: 2	175837	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.025	1.000	0	92.4	68	135			
Toluene		0.95	0.050	1.000	0	94.7	70	130			
Surr: 1,2-Dichloroethane	e-d4	0.43		0.5000		86.3	70	130			
Surr: 4-Bromofluoroben:	zene	0.47		0.5000		93.7	70	130			
Surr: Dibromofluorometh	hane	0.45		0.5000		89.0	70	130			
Surr: Toluene-d8		0.50		0.5000		101	70	130			

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

#### WO#: 1910773 15-Oct-19

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

	Blagg Engii GCU 135	neering									
Sample ID: <b>rb</b>		SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS		Batch	n ID: <b>G6</b>	3641	F	RunNo: <b>6</b> 3	3641				
Prep Date:	А	nalysis D	ate: 10	/14/2019	S	SeqNo: 2'	175888	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics Surr: BFB	(GRO)	ND 490	5.0	500.0		97.6	70	130			
Sample ID: 2.5ug gr	ro Ics	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS		Batch	n ID: <b>G6</b>	3641	F	RunNo: 63	3641				
Prep Date:	А	nalysis D	ate: 10	/14/2019	S	eqNo: 2	175889	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO)	24	5.0	25.00	0	96.0	70	130			
Surr: BFB		450		500.0		90.1	70	130			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5

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WO#: 1910773 15-Oct-19

	Page	<u>93</u>	0	f 1	02
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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environme TEL: 505-345-3 Website: wwy	490. Albuquerqi 975 FAX: .	Hawkins NE 1e, NM 87109 505-345-4107	s San	I Sample Log-In Check Lis								
Client Name: BLAGG	Work Order Num	ber: 1910	773		RcptNo: 1								
Received By: Isaiah Ortiz	10/12/2019 8:00:00	) AM		2 C	In Of								
Completed By: Anne Thorne	0/14/2019 7:49:33	3 AM		Am. M.									
Reviewed By: Dr 10/14/19				Cone Are									
Chain of Custody													
1. Is Chain of Custody complete?		Yes	$\checkmark$	No 🗌	Not Present								
2. How was the sample delivered?		<u>Cour</u>	er										
Log In													
3. Was an attempt made to cool the samples?		Yes	$\checkmark$	No 🗌									
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes		No 🗌									
5. Sample(s) in proper container(s)?		Yes	✓	No 🗌									
6. Sufficient sample volume for indicated test(s)?		Yes	<b>~</b>	No 🗌									
7. Are samples (except VOA and ONG) properly p	reserved?	Yes	<b>V</b>	No 🗌									
8. Was preservative added to bottles?		Yes		No 🔽	NA 🗌								
9. VOA vials have zero headspace?		Yes		No 🗌	No VOA Vials 🗹								
10. Were any sample containers received broken?		Yes		No 🗹	# of preserved	/							
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	2	Yes		No 🗌	for pH: (<2 or >12 unless no	te							
12. Are matrices correctly identified on Chain of Cu	stody?	Yes	✓	No 🗌	Adjusted?	_							
13. Is it clear what analyses were requested?		Yes	<b>~</b>	No 🗌		1.5							
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	✓	No 🗌	Checked by: 41 10/14/1	9							
Special Handling (if applicable)													
15. Was client notified of all discrepancies with this	order?	Yes		No 🗌	NA 🔽								
Person Notified:	Date	Г											
By Whom:	Via:	eMa	il 🗌 Phon	ie 🗌 Fax	In Person								
Regarding:					· · · · · · · · · · · · · · · · · · ·								
Client Instructions:													
16. Additional remarks:													
17. <u>Cooler Information</u>	12												
111 THE INTERNATION AND A DECEMBER OF A D	Intact Seal No	Seal Da	te Sig	ined By									

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	LABORATORY	٤	8710	22		(τ	.er - 300.	tew \			Chloride (soi	$\times$									(S) BE			If necessary samples submitted to Hall Environmental may be submatracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report
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	צ⊻	enta	lue,	5-34!	anba		3260B (VOA) 3081 Pesticides / 8082 PCB's												 		1E COI	MAN		Iv note
5			inerg	Fax 505-345-4107	s Re	- /1															TT DNI	DUN"		o clear
HALL ENVIRONMENTAL	ANALYSIS	www.hallenvironmental.com	Albuquerque, NM 87109	Fax	Analysis Request	(*	'OS' <sup>v</sup> Od	0			D, F) snoinA					-					BILL DIRECTLY TO BPX USING THE CONTACT(S) BELOW.	CONTACT: SABRE BEEBE / ERIN DUNMAN		d lline
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	ĮŽ	ŴŴ	4901 Hawkins NE	Tel. 505-345-3975		-	DB (Method 504.1) PH (8310 or 8270SIMS)														ECTLY	E BEE		traction
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iai l	$\Box$	/	GCU				ABR	JEFFREY	⊠Yes	ture	Ty Ty	9										نو		- ditod
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Turn-Around 7	Standard	Project Name:		Project #:		Project Manag		Sampler:	īce:	Sample Temp	Type and #	Ő									Received by:	うト	Received by:	- tot
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Chain-of-Custody Record	BLAGG ENGR. / BPX ENERGY		P.O. BOX 87	BLOOMFIELD, NM 87413	(505) 632-1199				Other		Matrix	2012									Relinquished by	- 2	Relinduished by:	
Ģ	AGG								L							$\vdash$	$\vdash$						<u>ه</u>	
ain	BL		ress:			<u></u> #	age:	Ë		() ()	Time	0910									Time:	(54)	Time:	
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	Client:		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation:	□ NELAP	🗆 EDD (Type)	Date	10/11/01										Plaz/1		
	Cli		Ma		Ph	en	<b>8</b> ⊡	Ac			-	%									Datt		Date:	



October 15, 2019

Sabre Beebe Blagg Engineering P. O. Box 87 Bloomfield, NM 87413 TEL: (505) 632-1199 FAX (505) 632-3903

RE: GCU 135

OrderNo.: 1910777

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Sabre Beebe:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/12/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1910777

Date Reported: 10/15/2019

Hall Environmental	Analysis	Laboratory,	Inc.

CLIENT:	Blagg Engineering	Client Sample ID: Impact Grab @ 3'													
Project:	GCU 135		(	Collect	tion Dat	e: 10/	/11/2019 9:15:00 AM								
Lab ID:	1910777-001	Matrix: SOIL		Recei	ved Dat	e: 10/	/12/2019 8:00:00 AM								
Analyses		Result	RL	Qual	Units	DF	Date Analyzed Batch								
EPA MET	HOD 300.0: ANIONS						Analyst: CJS								
Chloride		110	60		mg/Kg	20	10/14/2019 12:43:17 PM 48121								
EPA MET	HOD 8015D MOD: GASOL	INE RANGE					Analyst: <b>DJF</b>								
Gasoline	Range Organics (GRO)	340	18		mg/Kg	5	10/14/2019 11:58:34 AM G63641								
Surr: E	BFB	128	70-130		%Rec	5	10/14/2019 11:58:34 AM G63641								
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst: BRM								
Diesel Ra	ange Organics (DRO)	2100	92		mg/Kg	10	10/14/2019 11:04:06 AM 48116								
Motor Oil	I Range Organics (MRO)	1100	460		mg/Kg	10	10/14/2019 11:04:06 AM 48116								
Surr: E	DNOP	0	70-130	S	%Rec	10	10/14/2019 11:04:06 AM 48116								
EPA MET	HOD 8260B: VOLATILES S	SHORT LIST					Analyst: <b>DJF</b>								
Benzene	)	ND	0.090		mg/Kg	5	10/14/2019 11:58:34 AM S63641								
Toluene		ND	0.18		mg/Kg	5	10/14/2019 11:58:34 AM S63641								
Ethylben	zene	0.25	0.18		mg/Kg	5	10/14/2019 11:58:34 AM S63641								
Xylenes,	Total	2.7	0.36		mg/Kg	5	10/14/2019 11:58:34 AM S63641								
Surr: 1	1,2-Dichloroethane-d4	94.9	70-130		%Rec	5	10/14/2019 11:58:34 AM S63641								
Surr: 4	4-Bromofluorobenzene	132	70-130	S	%Rec	5	10/14/2019 11:58:34 AM S63641								
Surr: E	Dibromofluoromethane	91.1	70-130		%Rec	5	10/14/2019 11:58:34 AM S63641								
Surr: 1	Toluene-d8	96.9	70-130		%Rec	5	10/14/2019 11:58:34 AM S63641								

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 5

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	gg Engineering U 135
Sample ID: MB-481	SampType: mblk TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 48121 RunNo: 63657
Prep Date: 10/14/2	Analysis Date: 10/14/2019 SeqNo: 2176026 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5
Sample ID: LCS-48	SampType: Ics TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 48121 RunNo: 63657
Prep Date: 10/14/2	Analysis Date: 10/14/2019 SeqNo: 2176027 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15 1.5 15.00 0 99.2 90 110

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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#### WO#: **1910777** *15-Oct-19*

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

	ngg Engineering 2U 135
Sample ID: LCS-48116	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 48116 RunNo: 63647
Prep Date: 10/14/201	9 Analysis Date: 10/14/2019 SeqNo: 2174624 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO	51 10 50.00 0 102 63.9 124
Surr: DNOP	4.9 5.000 97.4 70 130
Sample ID: MB-48116	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 48116 RunNo: 63647
Prep Date: 10/14/201	9 Analysis Date: 10/14/2019 SeqNo: 2174625 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO	ND 10
Motor Oil Range Organics (M	RO) ND 50
Surr: DNOP	10 10.00 103 70 130
Sample ID: LCS-48112	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 48112 RunNo: 63647
Prep Date: 10/11/201	9 Analysis Date: 10/14/2019 SeqNo: 2175390 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.1 5.000 103 70 130
Sample ID: MB-48112	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 48112 RunNo: 63647
Prep Date: 10/11/201	9 Analysis Date: 10/14/2019 SeqNo: 2175391 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	11 10.00 115 70 130

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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WO#: 1910777 15-Oct-19

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

	Blagg En GCU 135	gineering													
Sample ID: <b>rb</b>		Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List					
Client ID: PBS		Batc	h ID: <b>S6</b>	3641	F	RunNo: 6									
Prep Date:		Analysis [	Date: 10	)/14/2019	S	SeqNo: 2	175836	Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		ND	0.025												
Toluene		ND	0.050												
Ethylbenzene		ND	0.050												
Xylenes, Total		ND	0.10												
Surr: 1,2-Dichloroethane	e-d4	0.47		0.5000		94.5	70	130							
Surr: 4-Bromofluorobenz	zene	0.48		0.5000		96.0	70	130							
Surr: Dibromofluorometh	hane	0.47		0.5000		93.5	70	130							
Surr: Toluene-d8		0.52		0.5000		104	70	130							
Sample ID: 100ng Ic	s	Samp	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List					
Client ID: LCSS		Batc	h ID: <b>S6</b>	3641	F	RunNo: <b>6</b> :	3641								
Prep Date:		Analysis [	Date: 10	)/14/2019	S	SeqNo: 2'	175837	Units: mg/K	(g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		0.92	0.025	1.000	0	92.4	68	135							
Toluene		0.95	0.050	1.000	0	94.7	70	130							
Surr: 1,2-Dichloroethane	e-d4	0.43		0.5000		86.3	70	130							
Surr: 4-Bromofluoroben:	zene	0.47		0.5000		93.7	70	130							
Surr: Dibromofluorometh	hane	0.45		0.5000		89.0	70	130							
Surr: Toluene-d8		0.50		0.5000		101	70	130							

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

WO#: 1910777 15-Oct-19

	agg Engineering CU 135									
Sample ID: <b>rb</b>	Sam	оТуре: <b>М</b>	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Bat	ch ID: Ge	3641	F	RunNo: 63	3641				
Prep Date:	Analysis	Date: 10	0/14/2019	5	SeqNo: 2'	75888	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (G	RO) ND	5.0								
Surr: BFB	490		500.0		97.6	70	130			
Sample ID: 2.5ug gro	lcs Sam	oType: LC	s	Tes	tCode: EF	Gasoline	Range			
Client ID: LCSS	Bat	ch ID: Ge	3641	F	RunNo: 63	3641				
Prep Date:	Analysis	Date: 10	0/14/2019	5	SeqNo: 2'	75889	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (G	RO) 24	5.0	25.00	0	96.0	70	130			
Surr: BFB	450		500.0		90.1	70	130			

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
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WO#: 1910777 15-Oct-19

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ENVIRONMENTAL ANALYSIS LABORATORY		1 Hawkins NE ue, NM 87109 505-345-4107	Pample Log-In Check Lis								
Client Name: BLAGG V	Nork Order Number: 1910	0777		p: 1							
Received By: Isaiah Ortiz 10/	12/2019 8:00:00 AM	8	In C	$\sim$							
Completed By: Anne Thorne 10/ Reviewed By: りい ィッパイ/タ	14/2019 8:00:45 AM	L	Por A.	~							
Chain of Custody			_								
1. Is Chain of Custody complete?	Yes		No 🗌	Not Present							
2. How was the sample delivered?	Cou	rier									
Log In 3. Was an attempt made to cool the samples?	Yes		No 🗌	NA 🗌							
4. Were all samples received at a temperature of >0	0° C to 6.0°C Yes		No 🗌	NA 🗆							
5. Sample(s) in proper container(s)?	Yes		No 🗌								
6. Sufficient sample volume for indicated test(s)?	Yes	<b>v</b> 1	1o 🗌								
7. Are samples (except VOA and ONG) properly pres	served? Yes	✓ 1	No 🗀								
8. Was preservative added to bottles?	Yes		lo 🗹	NA 🗌							
9. VOA vials have zero headspace?	Yes		10 🗌	No VOA Vials 🗹							
10. Were any sample containers received broken?	Yes		No 🗹	# of preserved bottles checked							
<ol> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> </ol>	Yes		10 🗆	for pH:	or>12 unless noted)						
12. Are matrices correctly identified on Chain of Custo	ody? Yes	✓ N	lo 🗌 🛛	Adjusted?							
13. Is it clear what analyses were requested?			10 🗌		A-10/11/19						
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes	<b>V</b> N		Checked by:	Hr 10/14/19						
Special Handling (if applicable)											
15. Was client notified of all discrepancies with this of	rder? Yes		No 🗌	NA 🗹							
Person Notified:	Date		-								
By Whom:	Via: 🗌 eMa	ail 🗌 Phone	🗌 Fax	In Person							
Regarding:				:							
Client Instructions:											
16. Additional remarks:											
17. <u>Cooler Information</u> Cooler No Temp ºC Condition Seal Int	act Seal No Seal Da	ite Sinne	ed By								
1 5.1 Good Yes	ចករណៈមួយចេញសេវា ការប្រជាជាស្រីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ីស៊ី	na in in in in it. The second se	CONTRACTOR								

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	ANALYSIS	www.hallenvironmental.com	Albuquerque, NM 87109	Бах	Analysis Request	(1	*OS'*Od	1 <sup>/2</sup> 01	۵ <sup>,6</sup> С	DN'I	O,7) snoinA										BILL DIRECTLY TO BPX USING THE CONTACT(S) BELOW.	<u>VIA EMAIL OR IS PENDING.</u> SABRE BEEBE / ERIN DUNMAN		will be
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Chain-of-Custody Record	BLAGG ENGR. / BPX ENERGY		P.O. BOX 87	BLOOMFIELD, NM 87413	(505) 632-1199				□ Other		Matrix	SOIL									Relinquished by	25	Relinquished by:	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
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