Form C-144 July 21, 2008

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the form of the form of the start of the s

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

<u>Pit, Closed-Loop System, Below-Grade Tank, or</u> <u>Proposed Alternative Method Permit or Closure Plan Application</u>

Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: BP America Production Co. OGRID #: 778
Address: 1199 Main Ave., Suite 101, Durango, CO 81301
Facility or well name: GALLEGOS CANYON UNIT 135
API Number: 3004507885 OCD Permit Number:
U/L or Qtr/Qtr F Section 26.0 Township 29.0N Range 13W County: San Juan County
Center of Proposed Design: Latitude 36.70059 Longitude -108.17689 NAD: ☐1927 ▼ 1983
Surface Owner: Federal State Frivate Tribal Trust or Indian Allotment
2.
☐ Pit: Subsection F or G of 19.15.17.11 NMAC Release confirmed assigned
Temporary: Drilling Workover to Incident# NCS2005837120
□ Permanent □ Emergency □ Cavitation □ P&A
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams:
3.
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Drying Pad Above Ground Steel Tanks Haul-off Bins Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
4. Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank ID: A
Volume: 95.0 bbl Type of fluid: Produced Water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other SINGLE WALLED DOUBLE BOTTOMED SIDEWALLS NOT VISIBLE
Liner type: Thicknessmil
5.
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	hospital,	
7.		
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) ☐ Screen ☐ Netting ☐ Other ☐ Monthly inspections (If netting or screening is not physically feasible)		
8		
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC		
9.		
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.		
Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau and the	office for	
consideration of approval.	office for	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.		
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	Yes No	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No	
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No	
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No	
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No	
Within a 100-year floodplain FEMA map	☐ Yes ☐ No	

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: Previously Approved Operating and Maintenance Plan API Number: AP
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Instructions: Please indentify the facility or facilities for the disposal of liquids,		
facilities are required.	5. IF W. 5. IV. 1	
Disposal Facility Name:	Disposal Facility Permit Number:	
Disposal Facility Name:	Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information below) No	ecur on or in areas that will not be used for future serv	vice and operations?
Required for impacted areas which will not be used for future service and operation Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	erequirements of Subsection H of 19.15.17.13 NMAO I of 19.15.17.13 NMAC	C
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC.	e administrative approval from the appropriate dist l Bureau office for consideration of approval. Justi	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Dat	a obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Dat	a obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Database search;	a obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other sig lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	nificant watercourse or lakebed, sinkhole, or playa	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church - Visual inspection (certification) of the proposed site; Aerial photo; Satellit		☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that les watering purposes, or within 1000 horizontal feet of any other fresh water well or some NM Office of the State Engineer - iWATERS database; Visual inspection	pring, in existence at the time of initial application.	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh wat adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approx	•	Yes No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visu	al inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining	g and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geolog Society; Topographic map	y & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No
Within a 100-year floodplain FEMA map		☐ Yes ☐ No
18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Construction/Design Plan of Temporary Pit (for in-place burial of a drying proposition of Plan of Temporary Pit (for in-place burial of a drying proposition of Plan (if applicable) - based upon the appropriate requirements of 19.1 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Confirmation Disposal Facility Name and Permit Number (for liquids, drilling fluids and Confirmation Plan - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	uirements of 19.15.17.10 NMAC f Subsection F of 19.15.17.13 NMAC propriate requirements of 19.15.17.11 NMAC ad) - based upon the appropriate requirements of 19. 5.17.13 NMAC uirements of Subsection F of 19.15.17.13 NMAC Subsection F of 19.15.17.13 NMAC lrill cuttings or in case on-site closure standards cann H of 19.15.17.13 NMAC I of 19.15.17.13 NMAC	15.17.11 NMAC

Operator Application Certification:		
I hereby certify that the information submitted with this application is true, accu	rate and complete to the best of my knowledge and belief.	
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	
20. OCD Approval: ☐ Permit Application (including closure plan) ☑ Closure 4	FRONT	
OCD Representative Signature:	Approval Date:	
Title: Environmental Specialist	OCD Permit Number:	
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the complete the complete that the complete the complete that the	to implementing any closure activities and submitting the closure report. the completion of the closure activities. Please do not complete this	
Closure Method: Waste Excavation and Removal On-Site Closure Method Altern If different from approved plan, please explain.	ative Closure Method Waste Removal (Closed-loop systems only)	
Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, dri two facilities were utilized. Disposal Facility Name:	lling fluids and drill cuttings were disposed. Use attachment if more than	
Disposal Facility Name: Disposal Facility Permit Number:		
Disposal Facility Name: Were the closed-loop system operations and associated activities performed on o		
Yes (If yes, please demonstrate compliance to the items below) No		
Required for impacted areas which will not be used for future service and operated Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	tions:	
Closure Report Attachment Checklist: Instructions: Each of the following is mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude	400.47000	
25.		
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requires		
Name (Print):Steven Moskal	Title: Field Environmental Coordinator	
Signature: 2020.02.28 Signature: 11:25:48 -07'00'	Date: 2/28/2020	
e-mail address: Steven.moskal@bpx.com	Telephone: 832-609-7048	

22.		
Operator Closure Certification:		
	mitted with this closure report is true, accurate and complete to the best of my knowledge ar plicable closure requirements and conditions specified in the approved closure plan.	nd
Name (Print):	Title:	
Signature:	Date:	
e-mail address:	Telephone:	

BPX ENERGY

(formally BP America Production Company)
SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Gallegos Canyon Unit # 135 – Tank ID: A

API #: 3004507885

Unit Letter F, Section 26, T29N, R13W

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BPX Energy (BPX) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BPX shall close a BGT within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the New Mexico Oil Conservation Division (NMOCD) requires because of imminent danger to fresh water, public health, safety or the environment. If deviations from this plan are necessary, any specific changes will be included on form C-144 and approved by the NMOCD. BPX shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofit with a BGT that complies with the BPX's NMOCD approved BGT design attached to the BPX Design and Construction Plan. BPX shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not previously retrofitted to comply with the BPX's NMOCD approve BGT Design attached to the BPX Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BPX shall close the permitted BGT within 60 days of cessation of the BGTs operation or as required by the transitional provisions of Subsection B, D, or E of 19.15.17.17 NMAC.

General Closure Plan

1. BPX shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.

Notice is attached.

2. BPX shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.

Notice was provided and documented in the attached email.

- 3. BPX shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BPX Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)
 - d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
 - e. BPX Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
 - f. BPX Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
 - g. BPX Operated GCU 259 SWD, API 30-045-20006 (Liquids)
 - h. BPX Operated GCU 306 SWD, API 30-045-24286 (Liquids)
 - i. BPX Operated GCU 307 SWD, API 30-045-24248 (Liquids)
 - j. BPX Operated GCU 328 SWD, API 30-045-24735 (Liquids)
 - k. BPX Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

All liquids and/or sludge within the BGT were removed and sent to one of the above NMOCD approved facilities for disposal.

4. BPX shall remove the BGT and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approves. If a liner is present and must be disposed of it will be cleaned by scraping any soils or other attached materials on the liner to a de minimus amount and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.

The BGT was transported for recycling.

5. BPX shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.

All equipment associated with the BGT has been removed.

6. BPX shall test the soils beneath the BGT to determine whether a release has occurred. BPX shall collect at a minimum: a five (5) point composite sample and individual grab samples from any area that is wet, discolored or showing other evidence of a release and analyze for BTEX, TPH and chlorides. The testing methods for those constituents are as follows;

Constituents	Testing Method	Release Verification	5pcs	Grab
		(mg/Kg)	Results	Results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	< 0.016	< 0.090
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.064	2.95
TPH	US EPA Method SW-846 418.1	100	162	3,540
Chlorides	US EPA Method 300.0 or 4500B	250 or background	100	110

Notes:

 $mg/Kg = milligram\ per\ kilogram,\ pcs = point\ composite\ sample,\ BTEX = benzene,\ toluene,\ ethylbenzene,\ and\ total\ xylenes,\ TPH = total\ petroleum\ hydrocarbons.$ Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.

Soils beneath the BGT were sampled for TPH, BTEX, and chloride. Benzene, BTEX, & chloride test parameters were below the stated limits. TPH exceeded verification threshold. A field and laboratory reports are attached.

- 7. BPX shall notify the division District III office of its results on form C-141. C-141 is attached.
- 8. If it is determined that a release has occurred, then BPX will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.

Sampling results reveal evidence of a release had occurred.

9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BPX shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area.

<u>Sampling results reveal evidence of a release had occurred.</u> <u>BGT area will be backfilled</u> with clean, earthen material after remedial activity has been completed.

10. BPX shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BPX shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.

BGT area will be backfilled with clean, earthen material after remedial activity has been completed. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and all practicable efforts will be made to prevent ponding of water and erosion of the cover material.

BGT area will be backfilled with clean, earthen material after remedial activity has been completed. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

12. BPX shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

BGT area will be backfilled with clean, earthen material after remedial activity has been completed. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

13. BPX shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.

BGT area will be backfilled with clean, earthen material after remedial activity has been completed. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

- 14. Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BPX shall notify the NMOCD when it has seeded or planted and when it successfully achieves re-vegetation.

 BPX will notify NMOCD when re-vegetation is successfully completed.
- 15. Within 60 days of closure completion, BPX shall submit a closure report on NMOCD's form C-144, and will include the following;
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation.

<u>Closure report on C-144 form is included & contains a photo of the current reclamation</u> requirements completed.

16. BPX shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

BP Pit Closure Notification - Gallegos Canyon Unit 135

From: Patti Campbell (BPX)
To: Smith, Cory, EMNRD

Cc: Sabre Beebe (BPX), Erin Dunman (BPX), Steven Moskal (BPX), Adeloye, Abiodun (BLM), Nelson Velez, Jeffrey Blagg

Date: Tuesday, October 8, 2019 09:00 AM MDT

SENT VIA E-MAIL TO: CORY.SMITH@STATE.NM.US; **ANESSA.FIELD@STATE.NM.US

₩ (11/15/2019)

October 8, 2019

New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

RE: Notice of Proposed Below-Grade Tank (BGT) Closure

Gallegos Canyon Unit 135 API 30-045-07885 (F) Section 26 – T29N – R13W San Juan County, New Mexico

Dear Mr. Cory Smith,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95 bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around October 11, 2019.

Should you have any questions, please feel free to contact BP.

Sincerely,

Patti Campbell

Regulatory Analyst
BP America Production Company
BPX Energy Inc.
(970) 712-5997
patti.campbell@bpx.com



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bp



BP America Production Company 1199 Main Ave., Suite 101 Durango, CO 81303

October 8, 2019

B Square Ranch LLC Tom Bolack 3901 Bloomfield Highway Farmington, NM 87401

VIA CERTIFIED MAIL

Re: Notification of plans to close/remove a below grade tank Well Name: GALLEGOS CANYON UNIT 135 API# - 3004507785

Dear Mr. Bolack,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about October 11, 2019. Barring any unforeseen issues, the work should be completed within 10 working days.

This site has been plugged and abandoned and BP is decommissioning the well site.

If witnessing of the tank removal is required, please contact Steve Moskal on (505)-330-9179 or Erin Dunman on (281) 810-2578 for a specific time.

Sincerely,

Patti Campbell

Patti Campbell BPX – San Juan Regulatory Analyst 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

Initial Report

Responsible Party BPX Energy (formerly BP America Production Co.)	OGRID 778
Contact Name Erin Dunman	Contact Telephone (832) 609-7048
Contact email Erin.Dunman@bpx.com	Incident # (assigned by OCD)

Contact mailing address 1199 Main Ave., Suite 101, Durango, CO 81301

Contact maning address 1177 Want Ave., Suite 101, Durango, CO 01301						
Location of Release Source						
Latitude	36.	.70059		Longitude _		08.17689
	(NAD 83 in decimal degrees to 5 decimal places)					
Site Name G	Site Name GALLEGOS CANYON UNIT 135 Site Type Natural Gas Well				s Well	
Date Release	Discovered			API# (if app	olicable) 30-04	5-07885
Unit Letter	Section	Township	Range	Coun	ats.	
F	26	29N	13W	San J		-
Surface Owner	r: State	☐ Federal ☐ Tri	bal Private (Λ	Jame: Bolack R	anch)
			NT /		D. 1	
			Nature and	Volume of I	Kelease	
	Material(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	d (bbls) Unknown	1	Volume Recovered (bbls) None	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		nloride in the	Yes 1	No	
Condensa			1	Volume Recovered (bbls) None		
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (provide units)			
Cause of Release Unknown – below-grade tank (bgt) appeared in good condition.						
Benzene, toluene, ethylbenzene, total xylenes (BTEX), benzene, & chloride all below below-grade tank (BGT) registration closure standards. Total Petroleum Hydrocarbons (TPH) exceeded both BGT						

Benzene, toluene, ethylbenzene, total xylenes (BTEX), benzene, & chloride all below below-grade tank (BGT) registration closure standards. Total Petroleum Hydrocarbons (TPH) exceeded both BGT registration and 19.15.29 NMAC closure standard requirements (100 mg/Kg - exceeding setback requirement per paragraph 1 of subsection D, 19.15.29 NMAC) for one (1) composite & one (1) grab samples. Remedial activity required.

Received by OCD: 3/2/2020 11:13:44 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon	sible party consider this a major release?
☐ Yes ☒ No		
If VES, was immediate as	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
•	suce given to the OCD: By whom: To wh	oni: when and by what means (phone, eman, etc):
Not required.		
	Initial Re	sponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area has	s been secured to protect human health and	he environment.
		ikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and	
if all the actions described	d above have <u>not</u> been undertaken, explain w	ny.
has begun, please attach a	a narrative of actions to date. If remedial e	mediation immediately after discovery of a release. If remediation ifforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investigated	required to report and/or file certain release notified. The acceptance of a C-141 report by the Oate and remediate contamination that pose a threat	sest of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name: Erin	Dunman	Title: Field Environmental Coordinator
Signature:		Date:
email: Erin.Dunma	an@bpx.com	Telephone: (832) 609-7048
OCD Only		
Received by:		Date:

CLIENT: BPX		NGINEERING, INC BLOOMFIELD, NM		API #: 300450	7885
		05) 632-1199	0	TANK ID (if applicble):	A
FIELD REPORT:	(circle one): BGT CONFIRMATION	/ RELEASE INVESTIGATION / OTH	HER:	PAGE #: 1	of
SITE INFORMATION	V: SITE NAME: GCU #	135		DATE STARTED: 10	/11/19
QUAD/UNIT: F SEC: 26 TWP	29N RNG: 13W PM	: NM CNTY: SJ	ST: NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1,545'N / 2,	070'W SE/NW LEASE	TYPE: FEDERAL STATE / F	EE / INDIAN	ENVIRONMENTAL	
LEASE #: SF078926A	PROD. FORMATION: DK	KELLEY O.I CONTRACTOR: BPX - S. BE	F.S. EBE		JCB
REFERENCE POIN	T: WELL HEAD (W.H.) GP	s coord.: 36.70046	X 108.17743	GL ELEV.:	5,728'
1) 95 BGT (DW/DB)	GPS COORD.: 36	6.70059 X 108.17689	DISTANCE/BEA	RING FROM W.H.: 166',	
2)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
3)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S)#	OR LAB USED: HALL			OVM READING
1) SAMPLE ID: 95 BGT 5-pt.	5' sample date: 10/1			15B/8021B/300.0 (CI)	(ppm) 0.2
2) SAMPLE ID: Impact Grab	@ 3' SAMPLE DATE:		AB ANALYSIS: 80°	15B/8021B/300.0 (CI)	357
3) SAMPLE ID:			AB ANALYSIS:		
SAMPLE ID: SAMPLE ID:	SAMPLE DATE: SAMPLE DATE:		AB ANALYSIS: AB ANALYSIS:		
,					
SOIL DESCRIPTION					
SOIL COLOR: DARK YE COHESION (ALL OTHERS): NON COHESIVE (SLIGHT	LLOWISH ORANGE	PLASTICITY (CLAYS): NON PLASTIC /			IGHLY PLASTIC
CONSISTENCY (NON COHESIVE NOILS): L		DENSITY (COHESIVE CLAYS & SI HC ODOR DETECTED: YES NO E			
MOISTURE: DRY/SLIGHTLY MOIST/MOIST/					
SAMPLE TYPE: GRAB COMPOSITE		ANY AREAS DISPLAYING WETNESS		NATION -	
DISCOLORATION/STAINING OBSERVED: YES					
SITE OBSERVATION				EARS IN GOOD CONDITI	ON
APPARENT EVIDENCE OF A RELEASE OBSERVEQUIPMENT SET OVER RECLAIMED AREA:		LANATION: GRAY STAIN ON BG	I RAMP		
OTHER: SW/DB BGT WITH NO VISIBLE	SIDEWALLS REPLACED IN DECE			ENT TO WITNESS CONF	IRMATION
SAMPLING. GAS WELL IS PLUGGE				THAT TO L () () () ()	
EXCAVATION DIMENSION ESTIMATION DEPTH TO GROUNDWATER: >100'	J: ft. X NEAREST WATER SOURCE: >1,0	_ ft. X ft.	< 300'	TIMATION (Cubic Yards) : NMOCD TPH CLOSURE STD	: 100 ppm
SITE SKETCH					ррп
SITE SKETCH	BGT Located: off / on si	te PLOT PLAN circle	e: attached OVM	I CALIB. READ. = 100.2	_ppm RF =1.00
		FORMER		I CALIB. GAS =	_ppm
		SEPARATOR LOCATION	N TIME	E: _6:30 _ am/pm _ DATE: _	10/11/19
ACC	ESS	FENCE	'F	MISCELL. NO	OTES
	DAD / / /		P	O#:	
		$(x \times x)$	A	FE #:	
		PBGTL T.B. ~ 5'	<u>s</u>	io #: 1900400076	72
	BERM—	B.G.	<u> </u>	6L#: 745277	
1	/ /	(Year of stain	<u> </u>		08/10
TO P&A		ea of stain sandstone		OCD Appr. date(s): 03/	07/17 Meter
MARKER		surface	<u> 10</u>	ppm = parts per millio	n
			-	BGT Sidewalls Visible: Y	
			- S.P.D.	BGT Sidewalls Visible: Y	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVAT	TION DEPRESSION; B.G. = BELOW GRADE; B = 1 ELOW-GRADE TANK LOCATION; SPD = SAMPLE		H. = WELL HEAD;	BGT Sidewalls Visible: Y	
APPLICABLE OR NOT AVAILABLE; SW - SING	LE WALL; DW - DOUBLE WALL; SB - SINGLE BC		/ LL, N/A - N/O 1 1	Magnetic declination: '	IU
NOTES: GOOGLE EARTH IMAG	SERY DATE: 4/6/2019.	ONSITE: 10/11/19	9		

Analytical Report Lab Order 1910773

Date Reported: 10/15/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 95 BGT-5 PC @ 5'

 Project:
 GCU 135
 Collection Date: 10/11/2019 9:10:00 AM

 Lab ID:
 1910773-001
 Matrix: SOIL
 Received Date: 10/12/2019 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	100	60	mg/Kg	20	10/14/2019 12:30:53 PM 48121
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: DJF
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	10/14/2019 11:29:04 AM G63641
Surr: BFB	97.5	70-130	%Rec	1	10/14/2019 11:29:04 AM G63641
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: BRM
Diesel Range Organics (DRO)	52	9.5	mg/Kg	1	10/14/2019 10:19:59 AM 48116
Motor Oil Range Organics (MRO)	110	48	mg/Kg	1	10/14/2019 10:19:59 AM 48116
Surr: DNOP	109	70-130	%Rec	1	10/14/2019 10:19:59 AM 48116
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: DJF
Benzene	ND	0.016	mg/Kg	1	10/14/2019 11:29:04 AM S63641
Toluene	ND	0.032	mg/Kg	1	10/14/2019 11:29:04 AM S63641
Ethylbenzene	ND	0.032	mg/Kg	1	10/14/2019 11:29:04 AM S63641
Xylenes, Total	ND	0.064	mg/Kg	1	10/14/2019 11:29:04 AM S63641
Surr: 1,2-Dichloroethane-d4	99.0	70-130	%Rec	1	10/14/2019 11:29:04 AM S63641
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	10/14/2019 11:29:04 AM S63641
Surr: Dibromofluoromethane	98.9	70-130	%Rec	1	10/14/2019 11:29:04 AM S63641
Surr: Toluene-d8	104	70-130	%Rec	1	10/14/2019 11:29:04 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

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
 Collection Date: 10/11/2019 9:15:00 AM

 Lab ID:
 1910777-001
 Matrix: SOIL
 Received Date: 10/12/2019 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	110	60		mg/Kg	20	10/14/2019 12:43:17 PM 48121
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	340	18		mg/Kg	5	10/14/2019 11:58:34 AM G63641
Surr: BFB	128	70-130		%Rec	5	10/14/2019 11:58:34 AM G63641
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst: BRM
Diesel Range Organics (DRO)	2100	92		mg/Kg	10	10/14/2019 11:04:06 AM 48116
Motor Oil Range Organics (MRO)	1100	460		mg/Kg	10	10/14/2019 11:04:06 AM 48116
Surr: DNOP	0	70-130	S	%Rec	10	10/14/2019 11:04:06 AM 48116
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
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
Ethylbenzene	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: 1,2-Dichloroethane-d4	94.9	70-130		%Rec	5	10/14/2019 11:58:34 AM S63641
Surr: 4-Bromofluorobenzene	132	70-130	S	%Rec	5	10/14/2019 11:58:34 AM S63641
Surr: Dibromofluoromethane	91.1	70-130		%Rec	5	10/14/2019 11:58:34 AM S63641
Surr: 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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	Ü		\Ž		Ph	e	ð 🖸	Acc				12/21	•							Date:	12019	Date:	

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910773

15-Oct-19

Client:

Blagg Engineering

Project:

GCU 135

Sample ID: MB-48121

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 48121

RunNo: 63657

Prep Date: 10/14/2019

Analysis Date: 10/14/2019

SeqNo: 2176026 Units: mg/Kg

TestCode: EPA Method 300.0: Anions

Analyte

Result **PQL** SPK value SPK Ref Val

%REC LowLimit

%RPD **RPDLimit**

Qual

Chloride

ND 1.5

Sample ID: LCS-48121

SampType: Ics

RunNo: 63657

Client ID: LCSS

Batch ID: 48121

HighLimit

Prep Date: 10/14/2019 Analysis Date: 10/14/2019

SeqNo: 2176027

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

RPDLimit

Chloride

15.00

0

99.2

Qual

Qualifiers:

D Sample Diluted Due to Matrix

Not Detected at the Reporting Limit

Value exceeds Maximum Contaminant Level.

Η Holding times for preparation or analysis exceeded Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits Sample pH Not In Range

Reporting Limit

Page 2 of 5

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: 1910773

15-Oct-19

Client:

Blagg Engineering

Project: GCU 135

Sample ID: MB-48116

Sample ID: LCS-48116 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 48116 RunNo: 63647 Prep Date: 10/14/2019 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) 10 50.00 n 63.9 51 102 124 Surr: DNOP 5.000 97.4 4.9 130

Client ID: PBS Batch ID: 48116 RunNo: 63647 Prep Date: 10/14/2019 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 (MRO) 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: 10/11/2019 Analysis Date: 10/14/2019 SeqNo: 2175390 Units: %Rec Analyte Result 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: 10/11/2019 Analysis Date: 10/14/2019 SeqNo: 2175391 Units: %Rec SPK value SPK Ref Val %REC %RPD Analyte Result **PQL** LowLimit HighLimit **RPDLimit** Qual

Surr: DNOP

11

10.00

TestCode: EPA Method 8015M/D: Diesel Range Organics

130

115

70

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **1910773**

15-Oct-19

Client: Blagg Engineering

Project: GCU 135

Sample ID: rb SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List Client ID: PBS Batch ID: S63641 RunNo: 63641 Prep Date: Analysis Date: 10/14/2019 SeqNo: 2175836 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-d4 0.47 0.5000 94.5 70 130 0.48 Surr: 4-Bromofluorobenzene 0.5000 96.0 70 130 Surr: Dibromofluoromethane 0.47 0.5000 93.5 70 130 70 Surr: Toluene-d8 0.52 0.5000 104 130

Sample ID: 100ng Ics	Samp	Type: LC	S	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List		
Client ID: LCSS	Batc	h ID: S6	3641	F	RunNo: 6	3641					
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-d4	0.43		0.5000		86.3	70	130				
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.7	70	130				
Surr: Dibromofluoromethane	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
- 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 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910773

15-Oct-19

Client:

Blagg Engineering

Project:

GCU 135

Sample ID: rb

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS

Batch ID: G63641

RunNo: 63641

Prep Date:

Analysis Date: 10/14/2019

SeqNo: 2175888 Units: mg/Kg

Analyte

Result **PQL** ND

%REC

HighLimit

130

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO)

5.0

0

SPK value SPK Ref Val

500.0

LowLimit 70

Surr: BFB Sample ID: 2.5ug gro Ics

SampType: LCS

490

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS

Batch ID: G63641

RunNo: 63641

97.6

Prep Date:

Analysis Date: 10/14/2019 **PQL**

SeqNo: 2175889

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC

LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO)

24 450

Result

25.00 500.0 96.0

130

Surr: BFB

5.0

90.1

70 70

130

Qualifiers:

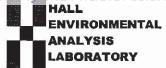
Η

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

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

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

IORATORY

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

Website: www.hallenvironmental.com

Client Name: BLAGG	Work Order Number: 19	10773		RcptNo:	1
Received By: Isaiah Ortiz	10/12/2019 8:00:00 AM		Ser on O	4	
SECONDARIAN CONTRACTOR OF SECONDARIAN CONTRACTOR CONTRA			I . O	4	
Reviewed By: 10 W 10/14/19	10/14/2019 7:49:33 AM		alone Ham	_	
Reviewed By: DW 10/14/19					
Chain of Custody		es 🗸	No 🗆	Not Present	
1. Is Chain of Custody complete?			NO L	Not Present 🗀	
2. How was the sample delivered?	<u>C</u> (<u>ourier</u>			
<u>Log In</u>					
3. Was an attempt made to cool the samples?	Y€	es 🗸	No 🗌	NA \square	
4. Were all samples received at a temperature of	f >0° C to 6.0°C Ye	es 🗸	No 🗀	NA 🗆	
5. Sample(s) in proper container(s)?	Υe	s 🗸	No 🗌		
		-			
6. Sufficient sample volume for indicated test(s)?	Ye	s 🗸	No 🗌		
$7.$ Are samples (except VOA and $\mbox{ONG})$ properly	preserved? Ye	s 🗹	No 🗌		
8. Was preservative added to bottles?	Ye	s 🗆	No 🗸	NA 🗆	
9 1/04 viala have ht	V		No 🗌	No VOA Vials	
9. VOA vials have zero headspace? 10. Word any appropriate containing received broken.	Ye ? Y€	- =	No ☑	NO VOA VIAIS	
10. Were any sample containers received broken	, te	s —	NO E	# of preserved	
11. Does paperwork match bottle labels?	Ye	s 🗸	No 🗆	bottles checked for pH:	
(Note discrepancies on chain of custody)			-100-001-1		unless noted)
12. Are matrices correctly identified on Chain of C	ustody? Ye	74 77 N	No 🗌	Adjusted?	e: := :=
13. Is it clear what analyses were requested?	Ye		No 📙	Chalcad bu A	-11/11/19
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Ye	s 🗸	No 🗀	Checked by:	1) 1/17/101
					i.
Special Handling (if applicable)					
15. Was client notified of all discrepancies with th	is order? Ye	es 📙	No 📙	NA 🗹	
Person Notified:	Date				
By Whom:	Via: ☐ e	Mail 🗌 Phor	ne 🗌 Fax	☐ In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. Cooler Information	0.				
	ıl Intact Seal No Seal	Date Sig	gned By		
1 5.1 Good Yes	L				

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910777

15-Oct-19

Client:

Blagg Engineering

Project:

Prep Date:

GCU 135

Sample ID: MB-48121

SampType: mblk Batch ID: 48121

Analysis Date: 10/14/2019

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

10/14/2019

RunNo: 63657 SeqNo: 2176026

Units: mg/Kg

Analyte Chloride

Result **PQL** SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD **RPDLimit**

Qual

ND 1.5

Sample ID: LCS-48121

SampType: Ics

RunNo: 63657

Prep Date: 10/14/2019

Client ID: LCSS

Batch ID: 48121

Analyte

Analysis Date: 10/14/2019

SeqNo: 2176027

Units: mg/Kg

%RPD **RPDLimit** Qual

SPK value SPK Ref Val %REC LowLimit

0

Chloride

15.00

99.2

HighLimit

Qualifiers:

Η

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

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

Client:

Blagg Engineering

Project:

GCU 135

Project: GCU 135	'							
Sample ID: LCS-48116	SampType	: LCS	Tes	tCode: EPA Met	thod 8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID:	: 48116	F	RunNo: 63647				
Prep Date: 10/14/2019	Analysis Date:	: 10/14/2019	S	SeqNo: 2174624	Units: mg/K	g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10 50.00	0	102 6	63.9 124			
Surr: DNOP	4.9	5.000		97.4	70 130			
Sample ID: MB-48116	SampType	: MBLK	Tes	tCode: EPA Met	thod 8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID:	: 48116	F	RunNo: 63647				
Prep Date: 10/14/2019	Analysis Date:	10/14/2019	S	SeqNo: 2174625	Units: mg/K	g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10						
Motor Oil Range Organics (MRO)	ND	50						
Surr: DNOP	10	10.00		103	70 130			
Sample ID: LCS-48112	SampType	: LCS	Tes	tCode: EPA Met	thod 8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID:	: 48112	F	RunNo: 63647				
Prep Date: 10/11/2019	Analysis Date:	10/14/2019	S	SeqNo: 2175390	Units: %Rec	;		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1	5.000		103	70 130			
Sample ID: MB-48112	SampType	: MBLK	Tes	tCode: EPA Met	thod 8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID:	: 48112	F	RunNo: 63647				
Prep Date: 10/11/2019	Analysis Date:	10/14/2019	S	SeqNo: 2175391	Units: %Red	;		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowL	imit HighLimit	%RPD	RPDLimit	Qual

10.00

11

Qualifiers:

Surr: DNOP

- 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

115

70

130

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1910777**

15-Oct-19

Client:

Blagg Engineering

Project:

GCU 135

Sample ID: rb	Samp1	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	h ID: S6	3641	F	RunNo: 6	3641				
Prep Date:	Analysis D	Date: 10)/14/2019	8	SeqNo: 2	175836	Units: mg/K	(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-d4	0.47		0.5000		94.5	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		93.5	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID: 100ng Ics	SampT	ype: LC	S	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: LCSS	Batcl	n ID: S6	3641	F	RunNo: 6	3641				
Prep Date:	Analysis D)ate: 10	/14/2019	8	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-d4	0.43		0.5000		86.3	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.7	70	130			
Surr: Dibromofluoromethane	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
- 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 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1910777 15-Oct-19

Client:

Blagg Engineering

Project:

GCU 135

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Sample ID: rb Client ID: PBS

Batch ID: G63641

RunNo: 63641

Prep Date:

Analysis Date: 10/14/2019 **PQL**

SeqNo: 2175888 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD

Gasoline Range Organics (GRO)

ND 5.0

0

RPDLimit

Surr: BFB

490

Result

Result

24

450

500.0

97.6

70

Qual

Sample ID: 2.5ug gro Ics

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS

Batch ID: G63641

RunNo: 63641

130

Prep Date:

Analyte

Analysis Date: 10/14/2019

PQL

5.0

SeqNo: 2175889

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC LowLimit

HighLimit

130

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

25.00 500.0 96.0 90.1

70

70 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Num	ber: 1910777		RcptNo:	1
Received By: Isaiah Ortiz	10/12/2019 8:00:00) AM	I-O Am H-	4	
Completed By: Anne Thorne	10/14/2019 8:00:4	5 AM	Om H.	_	
Reviewed By: 10 /14/9			ane gra		
Chain of Custody					
Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present	
2. How was the sample delivered?		Courier			
Log In					
Was an attempt made to cool the sample	s?	Yes 🗸	No 🗌	NA \square	
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated tes	t(s)?	Yes 🗸	No 🗆		
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
Were any sample containers received bro	ken?	Yes 🗌	No 🗹	# of preserved	
				bottles checked	
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH: (<2 or-	>12 unless noted)
Are matrices correctly identified on Chain	of Custody?	Yes 🗸	No 🗆	Adjusted?	····,
3. Is it clear what analyses were requested?	,	Yes 🗹	No 🗆		^
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:	10/14/19
Special Handling (if applicable)					
15. Was client notified of all discrepancies wi	th this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	* <u>_</u>	hone Fax	☐ In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. Cooler Information Cooler No Temp °C Condition 1 5.1 Good	Seal Intact Seal No /es	Seal Date	Signed By		