District II

1625 N. French Dr., Hobbs, NM 88240
District III

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-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

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

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

Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method					
Instructions: Please submit one application (Form C-144) per individual pit, 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.					
1. Operator: BP America Production Company OGRID #: 778 Address: 380 North Airport Road, Durango, CO 81303					
Facility or well name: GCU 211					
API Number: 3004511651 OCD Permit Number:					
Center of Proposed Design: Latitude 36.68603 Longitude -108.11897 NAD83					
Surface Owner: Federal State Private Tribal Trust or Indian Allotment					
Surface Owner: Federal . State Frivate Tribal Trust of Indian Allounent					
Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D String-Reinforced Liner Seams: Subsection I of 19.15.17.11 NMAC TANK A TANK A 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 Other Other Construction Single wall/ Double bottom; sidewalls not visible Liner type: Thickness mil HDPE PVC Other Oth					
4. 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, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify					
AHG 3 n 2018					

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)	
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	
Variances 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: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. 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 accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	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. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. (Does not apply to below grade tanks) - 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. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site: Aerial photo: Satellite image.	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No			
Temporary Pit Non-low chloride drilling fluid				
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any 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. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No			
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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No			
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No			
Permanent Pit or Multi-Well Fluid Management Pit				
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 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No			
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, 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 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ 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 19.15.17.11 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: or Permit Number: or Permit Number:				
Multi-Well Fluid Management Pit 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 doct attached. 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 A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.1 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	15.17.9 NMAC			

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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 Oddors, including H₂S, Prevention Plan ☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection 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 13. 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 Multi-well F	luid Management Pit			
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 Alternative Closure Method				
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 C 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 H of 19.15.17.13 NMAC				
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.				
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA			
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data 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; Data obtained from nearby wells \[\sum_{NA} \] Yes \sum_{NA} No				
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image				
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No			
Written confirmation or verification from the municipality; Written approval obtained from the municipality ☐ Yes ☐ No				
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site				
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 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		
On-Site 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. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC			
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and be	elief.		
Name (Print): Title:			
Signature: Date:			
e-mail address: Telephone:			
e-mail address: Telephone:			
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 1011 Title: OCD Permit Number: 19.			
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do in section of the form until an approved closure plan has been obtained and the closure activities have been completed.	ng the closure report.		
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 7/2/2018	ng the closure report.		
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do in section of the form until an approved closure plan has been obtained and the closure activities have been completed.	ng the closure report.		

Operator Closure Certification:			
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.			
Name (Print): Erin Dunman	Title: Field Environmental Coordinator		
Erin Dunman Signature:	Date: August 29, 2018		
e-mail address: erin.dunman@bpx.com	Telephone: (832) 609-7048		

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

GCU 211

API No. 3004511651

Unit Letter G Section 32 T 29N R 12W

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BP America Production Company (BP) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BP 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. BP 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 BP NMOCD approved BGT design attached to the BP Design and Construction Plan. BP 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 BP NMOCD approve BGT Design attached to the BP Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BP 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. BP 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. BP 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 is attached.

- 3. BP 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. BP 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. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)

- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

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

4. BP 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. BP 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. BP shall test the soils beneath the BGT to determine whether a release has occurred. BP 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	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.018
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.071
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	< 50
Chlorides	US EPA Method 300.0 or 4500B	620	240

Notes: mg/Kg = milligram per kilogram, 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.

Soil under the BGT was sampled for chloride, TPH and BTEX with all concentrations below the stated limits. The field report and laboratory reports are attached.

7. BP 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 BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.

Sampling results indicate a release has not occurred. Attached is a laboratory report and C-141.

9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP 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

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report. The location has been reclaimed as the well has been plugged and abandoned.

10. BP 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. BP 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.

The area has been backfilled and BGT location's surface condition is clear. The location has been reclaimed as the well has been plugged and abandoned.

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.

The area has been backfilled and BGT location's surface condition is clear. The location has been reclaimed as the well has been plugged and abandoned.

12. BP 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.

The area has been backfilled and BGT location's surface condition is clear. The location has been reclaimed as the well has been plugged and abandoned.

13. BP 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.

The area has been backfilled and BGT location's surface condition is clear. The location has been reclaimed as the well has been plugged and abandoned.

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

The area has been backfilled and BGT location's surface condition is clear. The location has been reclaimed as the well has been plugged and abandoned.

- 15. Within 60 days of closure completion, BP 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.

Closure report on C-144 form is included including photos of reclamation completion.

16. BP 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.

District I
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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 Company			on Company	OGRID 77	78
Contact Name Erin Dunman				Contact Te	elephone (832) 609-7048
Contact email erin.dunman@bpx.com			n	Incident #	(assigned by OCD)
				ango, CO 8130	03
		·			
	Location of Release Source				
Latitude 36.68603 Longitude -108.11897					
			(NAD 83 in dec	cimal degrees to 5 decin	nal places)
Site Name G	CU 211			Site Type	Natural Gas Well Site
Date Release	Discovered			API# (if app	olicable) 3004511651
		T 1:	D		
Unit Letter	Section	Township	Range	Coun	
G	32	29N	12W	San J	uan
Surface Owne	r: 🔳 State	☐ Federal ☐ Tr	ibal Private (A	Vame:)
			Nature and	l Volume of I	Release
				calculations or specific	justification for the volumes provided below)
Crude Oi		Volume Release			Volume Recovered (bbls)
Produced	Water	Volume Release			Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS in the produced water >10,000 mg/l?				Yes No
Condensa	Condensate Volume Released (bbls)				Volume Recovered (bbls)
Natural G	Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)
Other (describe) Volume/Weight Released (provide units)			Released (provide	e units)	Volume/Weight Recovered (provide units)
Cause of Release No release. This is for BGT closure.					

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?			
19.15.29.7(A) NMAC?				
☐ Yes ☐ No				
Tes No				
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?			
	Initial Response			
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 ha	s been secured to protect human health and the environment.			
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.			
All free liquids and re	ecoverable materials have been removed and managed appropriately.			
If all the actions described	d above have <u>not</u> been undertaken, explain why:			
Per 19.15.29.8 B. (4) NM	AC 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.				
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and			
public health or the environn	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. 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				
Pacaivad by:	Date			
Received by:	Date:			

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(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 not 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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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	S.

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

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

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	e included in the plan.
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation point □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.1 □ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con-	of would as part of any request for deferred of remediation
Deterral Requests Only: Each of the following tiems must be con-	girmea us part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file complete which may endanger public health or the environment. The acceptantiability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD are sponsibility for compliance with any other federal, state, or local factors.	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval
Signature:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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 i	tems must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

bp



BP America Production Company 380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

June 22, 2018

State Land Office Brandon Foley PO Box 3170 Farmington, NM 87402

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank

Well Name: GALLEGOS CANYON UNIT 211

API#: 3004511651

Dear Mr. Foley,

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 June 27, 2018. If there aren't any unforeseen problems, the work should be completed within 10 working days.

As a point of clarification, BP will be closing the below grade tank and either operating without one or replacing it with an above ground tank, the well site will continue to operate.

If witnessing of the tank removal is required please contact me for a specific time (832)-609-7048.

Sincerely,

Erin Garifalos

BP America Production Company

Erin Dunman

From:

Farrah Buckley

Sent:

Friday, June 22, 2018 12:40 PM

To:

Smith, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)

Cc:

jeffcblagg@aol.com; blagg_njv@yahoo.com; Erin Garifalos

Subject:

BP Pit Close Notification - GCU 211

external-email:

0

BP America Production Company 380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

SENT VIA E-MAIL TO: CORY.SMITH@STATE.NM.US; VANESSA.FIELDS@STATE.NM.US

June 22, 2018

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 211 API# 30-045-11651 (G) Section 32 – T29N – R12W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT and a 21bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around June 27, 2018.

Should you have any questions, please feel free to contact BP at our Durango office.

Sincerely,

Erin Garifalos

Field Environmental Coordinator – San Juan

Cell: 832-609-7048

Farrah Buckley
BGT Project Support
970-946-9199 -cell

Note new email address - Farrah.buckley@bpx.com

This email and any attachments are intended only for the addressee(s) listed above and may contain confidential, proprietary, and/or privileged information. If you are not an intended recipient, please immediately advise the sender by return email, delete this email and any attachments, and destroy any copies of same. Any unauthorized review, use, copying disclosure or distribution of this email and any attachments is prohibited.

CLIENT: BP	P.O. BOX 87, B	NGINEERING BLOOMFIELD (05) 632-1199		3	API #: 3004 TANK ID (if applicble):	45116 A	51
FIELD REPORT:	(circle one): BGT CONFIRMATION		ION / OTHER:			of	_1
SITE INFORMATION	I: SITE NAME: GCU #	211			DATE STARTED:	06/28	1/18
QUAD/UNIT: G SEC: 32 TWP:			SJ ST:	NM	DATE STARTED:	00/20	,, 10
1/4 -1/4/FOOTAGE: 1,650'N / 1,6							
	PROD. FORMATION: DK C	CTD	IVE		ENVIRONMENTAL SPECIALIST(S):	NJ\	V
REFERENCE POINT	: WELL HEAD (W.H.) GPS	S COORD.: 36	6.68596 X 108	11933	GL ELEV	/.: 5,4	69'
1) 95 BGT (SW/DB) - A	GPS COORD.:	6.68603 X 108.11	897 D	STANCE/BEAF	RING FROM W.H.:	13', N7	3E
2)	GPS COORD.:		DI	STANCE/BEAF	RING FROM W.H.:		
3)	GPS COORD.:		DI	STANCE/BEAF	RING FROM W.H.:		
4)	GPS COORD.:			STANCE/BEAF	RING FROM W.H.:		
SAMPLING DATA:							OVM READING
3AIVIF LING DATA. 1) SAMPLE ID: 5PC - TB @ 5' (9				801	5B/8021B/300.0 (0		(ppm)
2) SAMPLE ID:		SAMPLE TIME:		- 001	02/002/2/000/0		100
3) SAMPLE ID:							
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:	-			
5) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:				
CONSISTENCY (NON COHESIVE SOILS): COMPOSITERED BY SUBJECT OF A RELEASE OBSERVED OTHER: NMOCD REP. NOT PRESENT TO MOIST OF MOIST O	ET / SATURATED / SUPER SATURATED FOF PTS. SOF PTS. SO	LANATION:	N - HAS BEEN PLUGG	O EXPLAN	IATION -	(0)	NA NA
1001	EAREST WATER SOURCE: >1,000		WATER: >300' / <		IMOCD TPH CLOSURE		00 ppm
SITE SKETCH	BGT Located: off on si				CALIB. READ. = NA		
TO P&A MARKER NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO	FENCE BERM	(95)-A PBGTL T.B. ~ 5' B.G.	X - S.P.	OWM TIME W RI VI Pre OW Tan ID A	CALIB. GAS = NA NA am/pm DA MISCELL. O: EF #: P-987 D: VHIXONE J #: ermit date(s): CD Appr. date(s): k OVM = Organic V	Ppm NOTE NOTE VB2 06/14/ 02/26/ Vapor Meter million le: Y / N le: Y / N	10 18
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW - SINGL	OW-GRADE TANK LOCATION; SPD = SAMPLE E WALL; DW - DOUBLE WALL; SB - SINGLE BOT	POINT DESIGNATION; R.W. = F	RETAINING WALL; NA - NC	- 1	agnetic declinatio	n: 10°	E

Analytical Report

Lab Order 1806H59

Date Reported: 7/2/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

GCU 211 Project:

Lab ID: 1806H59-001 Client Sample ID: 5PC-TB @ 5' (95)-A

Collection Date: 6/28/2018 1:15:00 PM

Received Date: 6/29/2018 8:00:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	240	30	mg/K	g 20	6/29/2018 1:19:43 PM	38971
EPA METHOD 8015D MOD: GASOLINE RANGE					Analys	t: AG
Gasoline Range Organics (GRO)	ND	3.6	mg/K	g 1	6/29/2018 10:00:17 AM	1 A52377
Surr: BFB	113	70-130	%Red	1	6/29/2018 10:00:17 AM	1 A52377
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analys	t: Irm
Diesel Range Organics (DRO)	ND	10	mg/K	g 1	6/29/2018 10:04:38 AM	1 38968
Motor Oil Range Organics (MRO)	ND	50	mg/K	g 1	6/29/2018 10:04:38 AM	1 38968
Surr: DNOP	91.8	70-130	%Red	1	6/29/2018 10:04:38 AM	1 38968
EPA METHOD 8260B: VOLATILES SHORT LIST	*1				Analys	: AG
Benzene	ND	0.018	mg/K	g 1	6/29/2018 10:00:17 AM	C52377
Toluene	ND	0.036	mg/K	g 1	6/29/2018 10:00:17 AM	C52377
Ethylbenzene	ND	0.036	mg/K	g 1	6/29/2018 10:00:17 AM	1 C52377
Xylenes, Total	ND	0.071	mg/K	g 1	6/29/2018 10:00:17 AM	C52377
Surr: 4-Bromofluorobenzene	126	70-130	%Red	1	6/29/2018 10:00:17 AM	C52377
Surr: Toluene-d8	96.8	70-130	%Red	: 1	6/29/2018 10:00:17 AM	C52377

Matrix: SOIL

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
- 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
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 7 J
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

C	hain	of-Cu	istody Record	Turn-Around	Time:	SOME			1				_								
Client:	BP A	MERI <	A BLATE ENER.	Project Name	9:					A	N	AL	YS	SIS	S L		30		TO		P
Mailing	Address	:		Ge	XX #	211		490)1 H:							e, NN		'109			
				Project #:		1 100				5-34						345-					
Phone :	#: (50	5) 3	20-3489				Bi						100	A - 1	- 20 TA	uest	Contract of the				
email o				Project Mana	ger:	会して	8)	(Şl	00					04)							Γ
QA/QC I	Package: dard		☐ Level 4 (Full Validation)	ERIN	GRRIT	=ALOS	s (8021B)	TPH (Gas only)	RO/MRO)			SIMS)		PO ₄ ,SC	PCB's			5.0)		l Hu	
Accredi		□ Othe	er	Sampler: /\ On ice;	ELSON VE	iez n√ □No	- FIME	+ TPH	30 / DRO	18.1)	04.1)	8270		03,NO ₂ ,	\$ / 8082			(320.		Composyte	or N)
□ EDD	(Type)			Sample Temp	perature:23	-CF-1:0-1:3 ***	#	BE	(G	pd 4	od 5	0 or	etals	J,N	sides	8	9-	3		m	2
Date	Time	Matrix	Sample Request ID	Type and # MecH	Preservative Type	HEAL NO. 1806 H59	BTEX 4-191	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	CHLORIGE		5 M. C.	
6/23/18	1315	SOIL	5PC-TBR5 (95)-A	402-1	CooL	-201	/											\checkmark		1	1
4010	1303	SUIL	3PL-18C6(4)-8	102-1	Cool	202	*		6									Y		V	
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Date: 6/23/18	Time:	Relinquish	New Y	Received by:	N-A	Date Time 4/28/29 1573	Ren	narks	e C	BILL F: E	- 記心	Bf) (DIR	02 EC	/Vi	ANG	E H	נסאן!	٥	
Date:	Time:	Relinquish	Motu Walk	Received by	1	Date Time 06/29/17 — C8C U		VII F.=) :	· V	HI	XOI	UEI	NB	Z						8
1	necessary,	samples sub	mitted to Hall Environmental may be subc	contracted to other ac	ccredited laboratorie	es. This serves as notice of this	possil	oility. A	Any su	ıb-conf	tracted	d data	will be	clear	ly nota	ited on	the a	nalytica	report.		

Hall Environmental Analysis Laboratory, Inc.

WO#: 1806H59

02-Jul-18

Client:

Blagg Engineering

Project:

GCU 211

Sample ID MB-38971

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 38971

Result

RunNo: 52369

Prep Date: 6/29/2018 Analysis Date: 6/29/2018

SeqNo: 1717233

Units: mg/Kg HighLimit

%RPD

RPDLimit Qual

Analyte Chloride

ND 1.5

SampType: Ics

PQL

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 38971

RunNo: 52369

Prep Date: 6/29/2018

Sample ID LCS-38971

Analysis Date: 6/29/2018

SeqNo: 1717234

Units: mg/Kg

HighLimit %RPD

RPDLimit Qual

Analyte

SPK value SPK Ref Val

0

SPK value SPK Ref Val %REC LowLimit

%REC 97.2

90

Chloride

15

1.5

15.00

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

Page 3 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1806H59

02-Jul-18

Client:

Blagg Engineering

Project: GCU 211											
Sample ID MB-38968	SampT	Гуре: МЕ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	h ID: 38	968	R	RunNo: 52	2358					
Prep Date: 6/29/2018	Analysis D	Date: 6/	29/2018	S	SeqNo: 17	715969	Units: mg/k	(g			
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	11		10.00		109	70	130				
Sample ID LCS-38968	SampT	Type: LC	S	Tesi	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: LCSS	Batch	h ID: 38	968	R	RunNo: 52	2358					
Prep Date: 6/29/2018	Analysis D	Date: 6/	29/2018	S	SeqNo: 17	715970	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	55	10	50.00	0	109	70	130				
Surr: DNOP	4.6		5.000		92.5	70	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits

Page 4 of 7

- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering

Project: GCU 211

Project:	GCU 211										
Sample ID	100ng btex lcs	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	t List	
Client ID:	BatchQC	Batch	n ID: C5	2377	RunNo: 52377						
Prep Date:		Analysis D	ate: 6/	29/2018	S	SeqNo: 1	716373	Units: mg/F	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.98	0.025	1.000	0	98.5	80	120			
Toluene		1.0	0.050	1.000	0	105	80	120			
Ethylbenzene		1.0	0.050	1.000	0	104	80	120			
Xylenes, Total		2.9	0.10	3.000	0	97.0	80	120			
Surr: 4-Brom	ofluorobenzene	0.48		0.5000		96.5	70	130			
Surr: Toluene	e-d8	0.50		0.5000		99.2	70	130			
Sample ID	1806h59-002ams	SampT	ype: MS	64	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID:	5PC-TB @ 6' (21)-	B Batch	n ID: C5	2377	F	RunNo: 5	2377				
Prep Date:		Analysis D	ate: 6/	29/2018	8	SeqNo: 1	716376	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.71	0.018	0.7348	0	96.0	80	120			
Toluene		0.73	0.037	0.7348	0	99.5	80	120			
Ethylbenzene		0.77	0.037	0.7348	0	104	82	121			
Xylenes, Total		2.2	0.073	2.204	0.01475	99.7	80.2	120			
	ofluorobenzene	0.40		0.3674		109	70	130			
Surr: Toluen	e-d8	0.36		0.3674		97.1	70	130			
Sample ID	1806h59-002amsd	I SampT	ype: MS	SD4	Tes	Code: El	PA Method	8260B: Vola	tiles Short	List	
	5PC-TB @ 6' (21)-		1D: C5		F	tunNo: 5	2377				
Prep Date:		Analysis D	ate: 6/	29/2018	S	eqNo: 1	716377	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.66	0.018	0.7348	0	90.5	80	120	5.94	20	
Toluene		0.69	0.037	0.7348	0	94.0	80	120	5.60	20	
Ethylbenzene		0.72	0.037	0.7348	0	98.4	82	121	5.78	20	
Xylenes, Total		2.1	0.073	2.204	0.01475	95.2	80.2	120	4.54	20	
Surr: 4-Brom	ofluorobenzene	0.40		0.3674		110	70	130	0	0	
Surr: Toluen	e-d8	0.35		0.3674		96.4	70	130	0	0	
Sample ID	rb	SampT	ype: ME	BLK	Tes	Code: El	PA Method	8260B: Vola	tiles Short	List	
Client ID:	PBS	Batch	ID: C5	2377	R	unNo: 5	2377				
Prep Date:		Analysis D	ate: 6/	29/2018	S	eqNo: 1	716380	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								

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

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

Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

P Sample pH Not In Range

Reporting Detection Limit RL Sample container temperature is out of limit as specified

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WO#:

1806H59

02-Jul-18

Hall Environmental Analysis Laboratory, Inc.

0.51

WO#: 1806H59

02-Jul-18

Client:

Blagg Engineering

Project:

Surr: Toluene-d8

GCU 211

Sample ID rb SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List
Client ID: PBS Batch ID: C52377 RunNo: 52377

Prep Date: Analysis Date: 6/29/2018 SeqNo: 1716380 Units: mg/Kg

0.5000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 0.58 0.5000 115 70 130

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

Page 6 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering

Project: GCU 211

Sample ID 2.5ug gro lcs SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: A52377 RunNo: 52377

Prep Date: Analysis Date: 6/29/2018 SeqNo: 1716370 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 28
 5.0
 25.00
 0
 113
 70
 130

 Surr: BFB
 480
 500.0
 96.0
 70
 130

SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range Sample ID rb Batch ID: A52377 Client ID: PBS RunNo: 52377 Prep Date: Analysis Date: 6/29/2018 SeqNo: 1716371 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 5.0 ND

 Gasoline Range Organics (GRO)
 ND
 5.0

 Surr: BFB
 510
 500.0
 103
 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 Detection Limit

W Sample container temperature is out of limit as specified

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WO#:

1806H59

02-Jul-18



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		oer: 1806	H59			RcptNo: 1			
Received By:	Anne Tho	orne	6/29/201	8 8:00:00	AM		am	A.	_	
Completed By: Anne Thorne			6/29/201	8 8:20:42 A	AM		an	1		
Reviewed By: ENH 6/29/18							O(M)	7,-		
Calaled	by A	06/2911	9							
Chain of Cus										
1. Is Chain of C		olete?			Yes	✓	No		Not Present	
2. How was the	How was the sample delivered?					<u>ier</u>				
Log In										
3. Was an attempt made to cool the samples?						✓	No		NA 🗆	
4. Were all samples received at a temperature of >0° C to 6.0°C						V	No		NA 🗆	
5. Sample(s) in proper container(s)?						V	No			
6. Sufficient sample volume for indicated test(s)?						✓	No			
7. Are samples (except VOA and ONG) properly preserved?					Yes	V	No			
8. Was preservative added to bottles?							No	V	NA \square	
9. VOA vials have zero headspace?							No		No VOA Vials	
10. Were any sample containers received broken?					Yes		No	V	# of processed	
						_		_	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)					Yes	Y	No		for pH: (<2 (or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?					Yes	~	No		Adjusted?	, , , , , , , , , , , , , , , , , , , ,
13. Is it clear what analyses were requested?						✓	No			
14. Were all holding times able to be met?					Yes	~	No		Checked by:	
(If no, notify cu	ustomer for a	uthorization.)								
Special Handl	ing (if app	olicable)								
15. Was client notified of all discrepancies with this order?							No		NA 🗹	
Person	Notified:		CHARLES CANAL SO THE SECTION.	Date	NEW PROPERTY.	MANAGE AND ADMINISTRATION OF				
By Who	m:			Via:	☐ eMa	il 🗌 Ph	one 🗌	Fax	☐ In Person	
Regardi	ing:								SHART MANAGAMENTA SHOP OF THE SHART OF THE S	
Client In	structions:									
16. Additional rer	marks:									
17. Cooler Infor	mation									
Cooler No	211 Traces orner 231 31-1	Condition	Seal Intact	Seal No	Seal Da	te s	Signed I	Зу		
11	1.3	Good	Yes							



