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-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  Type of action:  Below grade tank registration  Permit of a pit or proposed alternative method	x, or proposed alternative method
Instructions: Please submit one application (Form C-144) p	per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability environment. Nor does approval relieve the operator of its responsibility to comply w	
1.	
Operator: BP America Production Company  200 Energy Court, Farmington, NM 87401	OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401	
API Number: 3004527397 OCD  U/L or Qtr/Qtr	Permit Number:
U/L or Qtr/Qtr Section Section Township 5114	Range County: County: Sall Sual
Center of Proposed Design: Latitude 36.852376 Lon Surface Owner: Federal State Private Tribal Trust or Indian Allotr	
	MI MANO BILLBIOT O
2.    Pit: Subsection F, G or J of 19.15.17.11 NMAC   Temporary:   Drilling   Workover   Workover   Permanent   Emergency   Cavitation   P&A   Multi-Well Fluid Met   Lined   Unlined   Liner type: Thickness   mil   LLDPE   String-Reinforced   Liner Seams:   Welded   Factory   Other	HDPE PVC Other
3.  ■ Below-grade tank: Subsection I of 19.15.17.11 NMAC  Volume: 95 bbl Type of fluid: Produced Water  Tank Construction material: Steel  □ Secondary containment with leak detection □ Visible sidewalls, liner, 6-i	
☐ Visible sidewalls and liner ☐ Visible sidewalls only ■ Other Single	
Liner type: Thickness mil   HDPE  PVC Ot	
4.  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, temp	orary pits, and below-grade tanks)
Chain link, six feet in height, two strands of barbed wire at top (Required if l institution or church)	
Four foot height, four strands of barbed wire evenly spaced between one and	four feet
Alternate. Please specify	

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)								
7.								
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 acceptance 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 ☐ NA							
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								
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							
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ 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.	☐ 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 300 feet 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							
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							
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 19.15.17.12 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							
п.							
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 documents are 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 19.15.17.9 NMAC 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:							

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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 attached.  Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.19 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 <sub>2</sub> S, 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	documents are					
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 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	luid Management Pit					
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						
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 sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 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  Ground water is between 25-50 feet below the bottom of the buried waste	Yes No					
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No					
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	Yes 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	☐ 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 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	☐ 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 the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No							
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>								
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								
17. 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 beli	ief.							
Name (Print): Title:								
Signature: Date:								
e-mail address: Telephone:								
18.								
OCD Approval: Permit Application (including closure dan) Closure Plan (only) OCD Conditions (see attachment)	12017							
OCD Approval: Permit Application (including closure dan) Clasure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature:  Approval Date:	71061							
OCD Approval: Permit Application (including closure dan) Cosure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature:  Approval Date: 18	19017							
OCD Approval: Permit Application (including closure dan) Clasure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature:  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.								
OCD Approval: Permit Application (including closure dan) Clasure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature:  OCD Permit Number:  OCD Permit Number:  OCD Permit Number:  OCD Permit Number:  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: 9/6/2017								
OCD Approval: Permit Application (including closure dan) Clasure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature:  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.	complete this							

Operator Closure Certification:	
	with this closure report is true, accurate and complete to the best of my knowledge and e closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature: Utin gwifalos	Date: October 30, 2017
e-mail address: erin.garifalos@bp.com	Telephone: (832) 609-7048

#### BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### BELOW-GRADE TANK CLOSURE PLAN

#### PRITCHARD B 005

API No. 3004527397

Unit Letter L Section 34 T 31N R 09W

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	< 0.019
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.075
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	11000
Chlorides	US EPA Method 300.0 or 4500B	620	<30

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 except TPH. TPH will be addressed following the spill and release guidelines. 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 had occurred. The release will be addressed following the spill and release guidelines. 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. The release will be addressed following the spill and release guidelines. Attached is a laboratory report and field report. The location will be reclaimed when the well is 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 a 105 BBL shallow low profile above-ground tank set atop the BGT location. The area will be reclaimed when the well is 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 a 105 BBL shallow low profile above-ground tank set atop the BGT location. The area will be reclaimed when the well is 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 a 105 BBL shallow low profile above-ground tank set atop the BGT location. The area will be reclaimed when the well is 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 a 105 BBL shallow low profile above-ground tank set atop the BGT location. The area will be reclaimed when the well is 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 a 105 BBL shallow low profile above-ground tank set atop the BGT location. The area will be reclaimed when the well is 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.

BP did not meet the 60 closure completion requirement due to an error in internal tracking. 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.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
811 S. First St., Artesia, NM 88210
District III District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

	Release Notification and Corrective Action											
						OPERA'	ГOR		■ Initia	al Report	eport	
Name of Company BP America Production Company						Contact Erin Garifalos						
Address 200	Energy Cour	t, Farmington, N	M 87401			Telephone No. (832) 609-7048						
Facility Nat	me PRITCHA	ARD B 005				Facility Typ	e: Natural Gas We	II				
Surface Ow	Surface Owner: Federal Mineral Owner								API No	. 3004527397		
Surface Ow	nci . redera			Willicial	JWIICI.	rederal			AITNO	,3004327337		
						N OF RE			West Line			
Unit Letter	Section	Township	Range	Feet from the	North	South Line	Feet from the	County				
L	34	31N	09W	1,840	Sou	uth	1,175	We	st	San Jua	nı	
Latitude 36.852376 Longitude -107.773030 NAD83												
				NAT	TURE	OF REL	EASE					
Type of Rele	ase:: none	9					Release:: unkno	own	Volume R	Recovered:: N/A		
Source of Re	lease: belo	w grade ta	nk - 05	hhl		Date and H	Iour of Occurrence		Date and	Hour of Discovery:		
			TIK - 95	DDI		n/a	XXII 0		n/a			
Was Immedia	ate Notice (		Yes [	No Not R	equired	If YES, To	wnom?					
Dy Whom?			165	110 🔲 110111	equired	Date and H	lour					
By Whom? Was a Water	course Read	ched?					olume Impacting t	the Wat	ercourse.			
was a water	course recu		Yes [	] No		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rume impacting t	ine wat	creourse.			
If a Waterson	maa maa Im	pacted, Descr	iho Eully 2	k								
		em and Reme		for Ch will be results	lorides,	BTEX, and seed following	TPH below BG7	T closu	re standard	noval. Soil analysis resulte ds, except TPH. The relea eld reports and laboratory		
Describe Are	a Affected	and Cleanup A	Action Tak	The rele	es. Fi			_		and release no remedial action	is	
regulations at public health should their co or the environ	Il operators or the envi- operations h nment. In a	are required to ronment. The nave failed to a	o report ar acceptance adequately OCD accep	is true and comp ad/or file certain r ee of a C-141 repo	elease nort by the	otifications are e NMOCD made contaminati	nd perform correct arked as "Final R on that pose a three the operator of	etive act eport" of eat to grespons	ions for rele loes not reli round water ibility for co	uant to NMOCD rules and cases which may endanger eve the operator of liability , surface water, human health ompliance with any other	h	
	15-1	arel a					OIL CON	SERV	ATION	DIVISION		
l	run g	wifale	1				1	1				
						Approved by	Environmental S	pecialis	t:)			
Printed Name	Erin G	arifalos				. 1			100			
		onmenta		rdinator		Approval Dat	e: 118128		Expiration I	Date:		
E-mail Addre	ess: erin.	garifalos	@bp.	com		Conditions of	Approval:			Attached		
Date: Octobe	er 30, 201	7	Phone:	(832) 609-7048								
Attach Addit						NCS	17248	4	576	1		

## bp



BP America Production Company 200 Energy Court Farmington, NM 87401

August 28, 2017

Bureau of Land Management Whitney Thomas 6251 College Suite A Farmington, NM 87402

#### VIA EMAIL

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

Well Name: PRITCHARD B 005

API #: 3004527397

Dear Mrs. Thomas,

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 August 31, 2017. 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 (505)-326-9497.

Sincerely,

Steven Moskal

**BP** America Production Company

#### Garifalos, Erin

From:

Buckley, Farrah (CH2M HILL)

Sent:

Monday, August 28, 2017 1:48 PM

To:

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

'brandon.powell@state.nm.us'

Cc:

'jeffcblagg@aol.com'; 'blagg\_njv@yahoo.com'; Moskal, Steven; Garifalos, Erin

Subject:

BP Pit Close Notification - PRITCHARD B 005

**BP America Production Company** 

200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

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

August 28, 2017

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

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

PRITCHARD B 005 API 30-045-27397 (L) Section 34— T31N — R09W 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 that will no longer be operational at this well site. We anticipate this work to start on or around August 31, 2017.

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

Sincerely,

Steven Moskal

BP Field Environmental Coordinator

(505) 326-9497

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

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	BLAGG E P.O. BOX 87, E		API#: 300452	27397	
		05) 632-1199		TANK ID (if applicble):	A
FIELD REPORT:	(circle one): BGT CONFIRMATION	/ RELEASE INVESTIGATION / C	OTHER:	PAGE #: <b>1</b>	of <b>1</b>
SITE INFORMATION	I: SITE NAME: PRITCH	HARD B #5		DATE STARTED: 08	3/31/17
QUAD/UNIT: L SEC: 34 TWP:	31N RNG: 9W PM	: NM CNTY: SJ	ST: NM	DATE FINISHED:	
1/4-1/4/FOOTAGE: 1,840'S / 1,1	75'W NW/SW LEASE	TYPE: FEDERAL STATE	/ FEE / INDIAN	ENVIRONMENTAL	
LEASE #: NM013686	PROD. FORMATION: FT C	CONTRACTOR: BP - J. GO	ONZALES	SPECIALIST(S):	NJV
REFERENCE POINT		S COORD.: 36.8528		GL ELEV.:	_
1) 95 BGT (SW/DB)	GPS COORD.: 36.	852376 X 107.773030	DISTANCE/BEA	RING FROM W.H.:116.5'	, S5.5E
2)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
3)				RING FROM W.H.:	
	GPS COORD.:			RING FROM W.H.:	OVM
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) #			(ED/9024D/200 0 /CI)	READING (ppm)
1) SAMPLE ID: <b>5PC - TB @ 5'</b> 2) SAMPLE ID:				15B/8021B/300.0 (CI)	NA
3) SAMPLE ID:					
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
5) SAMPLE ID:SOIL DESCRIPTION	SAMPLE DATE:				
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY/SLIGHTLY MOIST MOIST/W SAMPLE TYPE: GRAB (COMPOSITE) # DISCOLORATION/STAINING OBSERVED: YES M	DOSE FIRM DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED # OF PTS5	DENSITY (COHESIVE CLAYS & HC ODOR DETECTED: YES NO ANY AREAS DISPLAYING WETNES	EXPLANATION -		
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM NOT PRESEN	LOST INTEGRITY OF EQUIPMENT DAND/OR OCCURRED: YES NO EXPLANATION - 105 BE	LANATION:	ABOVE-GRADE TAI	NK TO BE SET ATOP BG	T LOCATION.
EXCAVATION DIMENSION ESTIMATION:	NA ft. X NA	ft. X NA ft.	EXCAVATION EST	ΓΙΜΑΤΙΟΝ (Cubic Yards) :	NA
	EAREST WATER SOURCE: >1,000	NEAREST SURFACE WATER:	<b>&gt;1,000'</b> NMOO	D TPH CLOSURE STD: 5	,000 ppm
SITE SKETCH	BGT Located: off on si	te PLOT PLAN circ	cle: attached OVM	CALIB. READ. = NA	ppm RF =1.00
	A		<b>♠</b> OVM	CALIB. GAS = NA	ppm
	ТО		N TIME	: NA am/pm DATE: _	NA
			'_	MISCELL. NO	TES
COMPRESSOR	PDOT		W	<i>I</i> O:	
COMPRESSOR ──→	PBGTL T.B. ~ 5'		R	EF#: <b>P-842</b>	
	B.G.			ID: VHIXONEVE	32
	TX.	FENCE		J#:	
BERM		PENCE			02/10
			Tar	nk OVM = Organic Vapor I	31/17 Meter
				bless barre has summer	
				BGT Sidewalls Visible: Y	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION	N DEPRESSION: R.G. = RELOW GRADE: R = F		( - S.P.D.	BGT Sidewalls Visible: Y	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW - SINGLI	OW-GRADE TANK LOCATION; SPD = SAMPLE E WALL; DW - DOUBLE WALL; SB - SINGLE BO	POINT DESIGNATION; R.W. = RETAINING		lagnetic declination: 1	l0°E
NOTES: GOOGLE EARTH IMAGE	ERY DATE: 10/5/2016.	ONSITE: 08/31/	17		

#### **Analytical Report**

Lab Order 1709002

Date Reported: 9/6/2017

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: 5PC-TB @ 5' (95)

Project: Pritchard B 5

Collection Date: 8/31/2017 11:25:00 AM

1709002-001 Lab ID:

Matrix: MEOH (SOIL)

Received Date: 9/1/2017 8:00:00 AM

Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	ND	30		mg/Kg	20	9/1/2017 11:01:09 AM	33671
EPA METHOD 8015M/D: DIESEL RANG	3				Analyst	TOM	
Diesel Range Organics (DRO)	520	190		mg/Kg	20	9/1/2017 12:58:42 PM	33668
Motor Oil Range Organics (MRO)	11000	970		mg/Kg	20	9/1/2017 12:58:42 PM	33668
Surr: DNOP	0	70-130	S	%Rec	20	9/1/2017 12:58:42 PM	33668
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	9/1/2017 11:51:47 AM	33653
Surr: BFB	78.7	54-150		%Rec	1	9/1/2017 11:51:47 AM	33653
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.019		mg/Kg	1	9/1/2017 11:51:47 AM	33653
Toluene	ND	0.038		mg/Kg	1	9/1/2017 11:51:47 AM	33653
Ethylbenzene	ND	0.038		mg/Kg	1	9/1/2017 11:51:47 AM	33653
Xylenes, Total	ND	0.075		mg/Kg	1	9/1/2017 11:51:47 AM	33653
Surr: 4-Bromofluorobenzene	116	66.6-132		%Rec	1	9/1/2017 11:51:47 AM	33653

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 Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Client: 8/3/17 ☐ EDD (Type) Standard QA/QC Package: email or Fax#: Phone #: Mailing Address: NELAP Accreditation: Date Ime: 5211 Time If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. **BLAGG ENGR. / BP AMERICA** □ Other **BLOOMFIELD, NM 87413** P.O. BOX 87 Matrix 505) 632-1199 SOIL quished by: Level 4 (Full Validation) Sample Request ID 5PC - TB @ U (95) Project Name: Received by: Sample Temperature Sampler: Project Manager: Project #: Type and # Container 4 oz. - 1 Standard PRITCHARD **NELSON VELEZ NELSON VELEZ** Preservative 4 Cool Type Rush W This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report Date #5 DAY 1450 Time 00 37 Remarks: Reference # BTEX + MTBE + TMB's (8021B) CONTACT: STEVE MOSKAL / VANCE HIXON BTEX + MTBE + TPH (Gas only) 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 VID: VHIXONEVB2 4 TPH 8015B (GRO / DRO / MRO) & REFERENCE # WHEN APPLICABLE; BILL DIRECTLY TO BP USING THE CONTACT WITH CORRESPONDING VID TPH (Method 418.1) **ANALYSIS LABORATORY** HALL ENVIRONMENTAL www.hallenvironmental.com EDB (Method 504.1) PAH (8310 or 8270SIMS) **Analysis Request RCRA 8 Metals** Anions (F,Cl,NO<sub>3</sub>,NO<sub>2</sub>,PO<sub>4</sub>,SO<sub>4</sub>) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA) Chloride (soil - 300.0 / water - 300.1) Grab sample

5 pt. composite sample

Air Bubbles (Y or N)

Chain-of-Custody Record

Turn-Around Time:

SAME

#### Hall Environmental Analysis Laboratory, Inc.

WO#:

1709002

06-Sep-17

Client:

Blagg Engineering

Project:

Pritchard B 5

Sample ID MB-33671

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

**PBS** 

Batch ID: 33671

RunNo: 45372

Prep Date: 9/1/2017

Analysis Date: 9/1/2017

SeqNo: 1438456

Units: mg/Kg

HighLimit

%RPD

**RPDLimit** 

Qual

Analyte Chloride

PQL Result 1.5

ND

Sample ID LCS-33671

Client ID: LCSS SampType: Ics Batch ID: 33671 TestCode: EPA Method 300.0: Anions

PQL

RunNo: 45372

Prep Date: 9/1/2017

Analysis Date: 9/1/2017

SeqNo: 1438457

Units: mg/Kg

%RPD

**RPDLimit** Qual

Analyte

90

110

Chloride

1.5

15.00

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

14

SPK value SPK Ref Val %REC

0

93.7

LowLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

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 J

P Sample pH Not In Range

RL

Reporting Detection Limit Sample container temperature is out of limit as specified Page 2 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1709002

06-Sep-17

Client:

Blagg Engineering

Project:

Pritchard B 5

Sample ID LCS-33668	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 33668			RunNo: 45363						
Prep Date: 9/1/2017	Analysis Date: 9/1/2017			S	SeqNo: 1	437550	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.7	73.2	114			
Surr: DNOP	4.7		5.000		93.7	70	130			

Sample ID MB-33668	SampType: MBLK			Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 33668			F	RunNo: 45363					
Prep Date: 9/1/2017	Analysis D	ate: 9/	1/2017	8	SeqNo: 1	437581	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	<b>RPDLimit</b>	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		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 3 of 5

- 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.

WO#:

1709002

06-Sep-17

Client:

Blagg Engineering

Project:

Pritchard B 5

Sample ID MB-33653

SampType: MBLK

PQL

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

Client ID:

PBS

Batch ID: 33653

RunNo: 45374

SeqNo: 1438048

Prep Date: Analyte

8/31/2017

Analysis Date: 9/1/2017

Result

ND

810

0

SPK value SPK Ref Val %REC

Units: mg/Kg

Qual

Gasoline Range Organics (GRO)

80.6

HighLimit

**RPDLimit** 

Surr: BFB

1000

SPK value SPK Ref Val

54

150

Sample ID LCS-33653

Prep Date: 8/31/2017

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 33653 Analysis Date: 9/1/2017

PQL

5.0

RunNo: 45374

SeqNo: 1438049

Units: mg/Kg

LowLimit

54

%RPD HighLimit

%RPD

**RPDLimit** Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

24 920

Result

25.00 1000 96.1 91.7

%REC

76.4 125 150

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H 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 В
- E Value above quantitation range

Reporting Detection Limit

- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Page 4 of 5

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1709002

06-Sep-17

Client:

Blagg Engineering

Project:

Pritchard B 5

Sample ID MB-33653	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 33653			RunNo: 45374						
Prep Date: 8/31/2017	Analysis Date: 9/1/2017		SeqNo: 1438062			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: 4-Bromofluorobenzene	1.2	0.10	1.000		122	66.6	132			
	1.2		1.000		122		102			
Sample ID LCS-33653	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batch ID: 33653			RunNo: 45374						
Prep Date: 8/31/2017	Analysis Date: 9/1/2017			SeqNo: 1438063			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	114	80	120			
Toluene	1.1	0.050	1.000	0	113	80	120			
Ethylbenzene	1.1	0.050	1.000	0	113	80	120			
Xylenes, Total	3.4	0.10	3.000	0	114	80	120			
Surr: 4-Bromofluorobenzene	1.2	0.10	1.000		122	66.6	132			

#### 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
- B Analyte detected in the associated Method Blank
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

E Value above quantitation range

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	nber: 1709002		RcptNo: 1								
Received By: Erin Melen Completed By: Ashley Gal Reviewed By:	llegos 9/1/2017 9:00:36 A		une Ag	-							
Chain of Custody											
1. Custody seals intact on sa	ample bottles?	Yes	No 🗌	Not Present							
2. Is Chain of Custody comp	lete?	Yes 🗹	No 🗌	Not Present							
3. How was the sample deliv	rered?	Courier									
Log In											
4. Was an attempt made to	cool the samples?	Yes 🗹	No 🗆	NA 🗆							
5. Were all samples received	d at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆							
6. Sample(s) in proper conta	ainer(s)?	Yes 🗹	No 🗌								
7. Sufficient sample volume	for indicated test(s)?	Yes 🗹	No 🗆								
8. Are samples (except VOA	Yes 🗹	No 🗌									
9. Was preservative added to	Yes	No 🗹	NA								
10.VOA vials have zero head	Yes	No 🗌	No VOA Vials 🗹								
11. Were any sample contain	Yes	No 🗹	# of								
12. Does paperwork match bo (Note discrepancies on ch	Yes 🗹	No 🗆	# of preserved bottles checked for pH: (<2 or	>12 unless noted)							
13. Are matrices correctly idea		Yes 🗹	No 🗆	Adjusted?							
14. Is it clear what analyses w	Yes 🗹	No 🗆									
15. Were all holding times abl (If no, notify customer for	Yes 🗹	No 🗆	Checked by:								
Special Handling (if app											
16. Was client notified of all di	iscrepancies with this order?	Yes	No 🗆	NA 🗹							
Person Notified: By Whom: Regarding: Client Instructions:	Dat Via		Phone Fax	In Person							
17. Additional remarks:											
18. Cooler Information  Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By  1 3.4 Good Yes											

BP AMERICA PRODUCTION COMPANY
PRITCHARD B 005
API 3004527397 LEASE NMNM013686
1840 FSL 1175 FWL (L) SEC 34 T31N R9W
San Juan County ELEV 6211
LAT 36° 51' 9.575"
LONG 107' 46' 22.891"

