<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 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

Pit, Below-Grade Tank, or

Form C-144 Revised June 6, 2013

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.

Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration OIL CONS. DIV DIST. 3
Permit of a pit or proposed alternative method
Closure of a pit, below-grade tank, or proposed alternative method  JAN 05 2017
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: 200 Energy Court, Farmington, NM 87401
Facility or well name: Hughes B 005A
API Number: OCD Permit Number:
U/L or Qtr/Qtr E Section 21 Township 29N Range 08W County: San Juan
Center of Proposed Design: Latitude <u>36.71349</u> Longitude <u>-107.68628</u> NAD: □1927 ☑ 1983
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment
2.
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: Thicknessmil LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: Lx Wx D
3,
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A
Volume: 95 bbl Type of fluid: Produced water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other <u>Double wall/ Double bottom; no visible sidewalls</u>
Liner type: Thicknessmil
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.

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Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)	hospital,
☐ 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)	
Informing inspections (in feeting of severing is not physically reasine)	
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	
8.  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
<b>General siting</b>	
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
<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	Yes No
<ul> <li>application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	
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 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc 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 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	NMAC
<ul> <li>□ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>□ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.</li> </ul>	15.17.9 NMAC
and 19.15.17.13 NMAC  Previously Approved Design (attach copy of design) API Number: or Permit Number:	#I
Treviously Approved Design (attach copy of design) Ar Frumber.	
11.  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 doc	cuments are
attached.  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	
<ul> <li>□ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>□ A List of wells with approved application for permit to drill associated with the pit.</li> <li>□ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.</li> </ul>	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:	

12.			
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			
☐ Climatological Factors Assessment			
Dike Protection and Structural Integrity 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			
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC			
☐ Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan			
Oil Field Waste Stream Characterization			
☐ Erosion Control Plan			
13.			
<u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.			
	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 ☐ On-site Trench Burial			
Alternative Closure Method			
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)			
15. Siting Critaria (regarding on-site closure methods only): 10 15 17 10 NMAC			
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour			
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		
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	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		
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.11 NMAC   Climatological Factors Assessment of 19.15.17.11 NMAC   Disk Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the uporporiate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the uporporiate requirements of 19.15.17.11 NMAC   Leak Detection Design - based upon the uporporiate requirements of 19.15.17.11 NMAC   Design -			
Certified Engineering Design Plans - 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   Leak Detection 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   Control(Quality Assurance Construction and Installation Plan   Coperating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Coperating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC   Coperating and Inspection Plan   Coloure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC   Coperating and Inspection Plan   Coloure Plan - based upon the appropriate requirements of 19.15.17.13 NMAC   Coloure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC   Coloure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC   Coloure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC   Coloure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC   Coloure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC   Coloure Method   Coloure Method (Coloure Plan Checklist: (19.15.17.13 NMAC)   Instructions: Each of the following liems must be attached to the sure plan.   Plans Indicate Plans   Coloure Plan Checklist: (19.15.17.13 NMAC)   Instructions: Each of the following liems must be attached to the sure plan.   Plans Indicate Plans   Coloure Plan Checklist: (19.15.17.13 NMAC)   Instructions: Each of the following liems must be attached to the sure plans.   Plans Indicate Plans   Coloure Plans Checklist: (19.15.17.13 NMAC)   Instructions: Each of the following liems must be attached to the sure plans   Plans   Coloure Pla			
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>	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	Yes No
16.	I Di ana in finata
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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  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 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	.11 NMAC .15.17.11 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 bel	lief.
Name (Print): Title:	
Titule (Titul)	
Signature: Date:	
Signature: Date:	
Signature:	
Signature:	(201)
Signature:	g the closure report.
Signature:	the closure report.
Signature:  e-mail address:  Telephone:    Second   Date:	g the closure report. It complete this

22.	
Operator Closure Certification:	
	his closure report is true, accurate and complete to the best of my knowledge and ure requirements and conditions specified in the approved closure plan.
Name (Print): Steve Moskal	Title: Field Environmental Coordinator
Signature:	Date: December 12, 2016
e-mail address: steven.moskal@bp.com	Telephone: (505) 326-9497

# BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

### BELOW-GRADE TANK CLOSURE PLAN

### **Hughes B 005A** API No. 3004526837 Unit Letter E, Section 21, T29N, R08W

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.
- 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.

- 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:
  - BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids) a.
  - JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge) b.
  - Basin Disposal, Permit NM-01-0005 (Liquids) C.
  - Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and d. Sludge)
  - BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids) e.

- 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	0.2	< 0.020
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.079
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<u>&lt;49</u>
Chlorides	US EPA Method 300.0 or 4500B	250 or background	<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 BTEX, TPH and chloride 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

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report. The location will be reclaimed once 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 will be reclaimed once 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 will be reclaimed once 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 will be reclaimed once 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 will be reclaimed once 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.

BP will notify NMOCD when re-vegetation is successful.

- 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
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 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	catio	n and Co	orrective A	ction				
						<b>OPERA</b>	TOR	☐ Init	ial Report			
Name of Co						Contact: St	eve Moskal					
Address: 20	00 Energy	Court, Farmi	ngton, N	M 87401		Telephone No.: 505-326-9497						
Facility Na						Facility Typ	e: Natural gas v	well				
Surface Ow	ner: Feder	al		Mineral C	)wner:	Federal		API N	o. 3004526837			
				LOCA	TIO	N OF RE	LEASE					
Unit Letter E	Section 21	Township 29N	Range 08W	Feet from the 1,745	North North	/South Line	Feet from the 1,085	East/West Line West	County: San Juan			
			La	titude 36.71	349°	Longitu	de107.686	506°				
				NAT	URE	OF REL		* *				
Type of Rele		1			. v		Release: unknow		Recovered: N/A			
Source of Re	lease: belov	v grade tank –	95 bbl			Date and I	Iour of Occurrence	Date and	Hour of Discovery: none			
Was Immedi	ate Notice (		v	la Darin		If YES, To	Whom?	8.5				
By Whom?			Yes 🔀	No Not Re	equirea	Date and I	Iour					
Was a Water	course Read	hed?					olume Impacting t	the Watercourse				
was a water	course Read		Yes 🛛	No		II ILS, V	nume impacting t	ine watercourse.	4			
If a Watercon	ırse was Im	pacted, Descr	ibe Fully.*			3		2 a a a a a a a a a a a a a a a a a a a				
				n Taken.* Sampli andards. Field rep					Soil analysis resulted with			
Describe Are	a Affected	and Cleanup A	Action Tak	en.* No action no	ecessary	. Final labora	tory analysis dete	ermined no remedi	al action is required.			
regulations a public health should their or or the environ	Il operators or the environerations had not a second operations had not a second	are required to conment. The ave failed to a	acceptance acceptance adequately CD accep	nd/or file certain re te of a C-141 repo investigate and re	elease nort by the emediate	notifications a le NMOCD m le contaminati	nd perform correct arked as "Final R on that pose a three the operator of	ctive actions for re- eport" does not re- eat to ground water responsibility for o	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other			
Signature:	Must	Muy)	2				OIL CON	SERVATION	DIVISION			
Printed Name	e: Steve Mo	skal				Approved by	Environmental S	pecialist:				
Title: Field E	nvironment	al Coordinato	r			Approval Da	te:	Expiration	Date:			
E-mail Addre	ess: steven.r	noskal@bp.co	m			Conditions of	f Approval:		Attached			
Date: Decen	ber 12, 201	6	Pho	ne: 505-326-9497				* 1	2 E			

<sup>\*</sup> Attach Additional Sheets If Necessary

# bp



BP America Production Company 200 Energy Court Farmington, NM 87401

October 13, 2016

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: HUGHES B 005A

API#: 3004526837

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 October 134, 2016. 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

### Moskal, Steven

From:

Smith, Cory, EMNRD < Cory. Smith@state.nm.us>

Sent:

Wednesday, October 12, 2016 3:45 PM

To:

Moskal, Steven; Fields, Vanessa, EMNRD; l1thomas@blm.gov

Cc:

jeffcblagg@aol.com; blagg\_njv@yahoo.com

Subject:

RE: BP Pit Close Notification -Hughes B 005A

Steve,

OCD District III gives approval to complete these BGT closures prior to the 72 hours notification, due to the BGT being closed as a result of a release. With the following conditions of approval,

- BP must get approval from the land owner to waive the 72 hour notification requirement,
- BP must fully remediate the release following 19.15.28 NMAC
- BP will follow their standard BGT closure plan, and will request to have the BGT closure plan approved from Santa Fe.
- BP will notify OCD at least 24 hours prior to sampling.

OCD approval does not relieve BP of any other requirements imposed by other regulatory agencies.

If you have any questions please give me a call.

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

From: Moskal, Steven [mailto:Steven.Moskal@bp.com]

Sent: Wednesday, October 12, 2016 3:34 PM

To: Smith, Cory, EMNRD < Cory. Smith@state.nm.us >; Fields, Vanessa, EMNRD < Vanessa. Fields@state.nm.us >;

11thomas@blm.gov

Cc: <u>jeffcblagg@aol.com</u>; <u>blagg\_njv@yahoo.com</u> Subject: BP Pit Close Notification -Hughes B 005A

**BP America Production Company** 

200 Energy Court Farmington, NM 87401

Phone: (505) 326-9200

October 12, 2016

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

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

Hughes B 005A API 30-045-26837 (E) Section 21 – T29N – R08W 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. The 95 bbl BGT requires remediation. We anticipate this work to start on or around October 14, 2016.

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

# Steve Moskal BP Lower 48 – San Juan – Farmington Field Environmental Coordinator Office: (505) 326-9497 Cell: (505) 330-9179



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.

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

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CLIENT: BP		NGINEERING, INC.	13	API#: 3004520	6837
	,	)5) 632-1199 <sup>*</sup>		TANK ID (if applicble):	\
FIELD REPORT:	(circle one): BGT CONFIRMATION /	/ RELEASE INVESTIGATION / OTHER:		PAGE#: <b>1</b> (	of 1
SITE INFORMATION				DATE STARTED: 10/	14/16
QUAD/UNIT: E SEC: 21 TWP:			NM	DATE FINISHED:	
1/4 - 1/4/FOOTAGE: 1,745'N / 1,0		TYPE: FEDERAL/STATE/FEE/II STRIKE ONTRACTOR: MBF-C. PARKS		ENMRONMENTAL SPECIALIST(S):	IJV
REFERENCE POINT	_	36.71317 X 10		GL ELEV.:	6 449'
				RING FROM W.H.: 134', 5	
2)				RING FROM W.H.:	
	GPS COORD.:			RING FROM W.H.:	
4)	GPS COORD.:			RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # 0	OR LAB USED: HALL		2.5	OVM READING
1) SAMPLE ID: 5PC - TB @ 5' (9	95) - A SAMPLE DATE: 10/14/		S: 801	5B/8021B/300.0 (CI)	(ppm)
2) SAMPLE ID:					
3) SAMPLE ID:					
4) SAMPLE ID:	SAMPLE DATE:	SAMPLETIME: LAB ANALYS	IS:		
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND	SILT / SILTY CLAY / CLAY / GRAVEL / OTHER	₹ .	· · · · · · · · · · · · · · · · · · ·	
SOIL COLOR: MODERATE TO DARK		PLASTICITY (CLAYS): NON PLASTIC / SLIGHTL		OHESIVE / MEDIUM PLASTIC / HIG	HLY PLASTIC
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY		DENSITY (COHESIVE CLAYS & SILTS): SO	OFT / FIRM / S	STIFF / VERY STIFF / HARD	
CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY/SLIGHTLY MOIST/ MOIST/ WE		HC ODOR DETECTED: YES NO EXPLANAT	ΠON		
SAMPLE TYPE: GRAB (COMPOSITE) #		ANY AREAS DISPLAYING WETNESS: YES	NO EXPLAN	IATION -	
DISCOLORATION/STAINING OBSERVED: YES N					
SITE OBSERVATION					
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:			ADE TANK	TO BE SET ATOP BGT LOC	ATION
OTHER: NMOCD OR BLM REP. NOT PRES			ADE IAIR	TO BE SET ATOF BUT ESS.	ATION.
SOIL IMPACT DIMENSION ESTIMATION:	NA ft. XNA	ft. X NA ft. EXCAN	ATION EST	IMATION (Cubic Yards) :	NA
Physics Committee Committe	EAREST WATER SOURCE: >1,000'			The state of the s	00 ppm
	BGT Located : off on site				
	9	/TO	OVINI		pm RF =0.52
	,	/ 18711		NA am/pm DATE:	NA
	SOUND			MISCELL. NO	
SEPA	WALLS WALLS		I w	O:	ILG
		COMPRESSOR		EF#: <b>P-741</b>	
es.		1	1 7	D: VHIXONEVB2	T :
*				J#:	
FENCE		(95) PBGTL	Pe	ermit date(s): 06/0	9/10
	\\ (x x x) \\ T.	B. ~ 5'			3/16
		B.G.	Tan ID	ppm = parts per million	
			Α		$\overline{}$
	ERM	X - S.I		BGT Sidewalls Visible: Y /	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO TR = TANK BOTTOM: PBGTI = PREVIOUS BEI		ELOW; T.H. = TEST HOLE; ~= APPROX.; W.H. = WELL OINT DESIGNATION; R.W. = RETAINING WALL; NA - N	107	BGT Sidewalls Visible: Y /	•
APPLICABLE OR NOT AVAILABLE; SW-SINGLE	E WALL; DW - DOUBLE WALL; SB - SINGLE BOTT		MI MI	agnetic declination: 10	)°E
NOTES: GOOGLE EARTH IMAGE	ERY DATE: 3/16/2016.	ONSITE: 10/14/16			

### **Analytical Report**

Lab Order 1610736

Date Reported: 10/18/2016

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

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

Project: Hughes B 5A

Collection Date: 10/14/2016 9:25:00 AM

Lab ID: 1610736-001

Matrix: MEOH (SOIL) Received Date: 10/15/2016 1:15:00 PM

Analyses	Result	PQL Qu	al Units	DF D	ate Analyzed	Batch
EPA METHOD 300.0: ANIONS			8		Anal	yst: LGT
Chloride	ND	30	mg/Kg	20 1	0/17/2016 12:33:39	PM 28108
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1 1	0/17/2016 10:47:08	AM 28084
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1 1	0/17/2016 10:47:08	AM 28084
Surr: DNOP	99.4	70-130	%Rec	1 1	0/17/2016 10:47:08	AM 28084
EPA METHOD 8015D: GASOLINE RAI	NGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1 1	0/17/2016 11:13:47	AM 28066
Surr: BFB	86.1	68.3-144	%Rec	1 1	0/17/2016 11:13:47	AM 28066
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.020	mg/Kg	1 1	0/17/2016 11:13:47	AM 28066
Toluene	ND	0.039	mg/Kg	1 1	0/17/2016 11:13:47	AM 28066
Ethylbenzene	ND	0.039	mg/Kg	1 1	0/17/2016 11:13:47	AM 28066
Xylenes, Total	ND	0.079	mg/Kg	1 1	0/17/2016 11:13:47	AM 28066
Surr: 4-Bromofluorobenzene	97.4	80-120	%Rec	1 1	0/17/2016 11:13:47	AM 28066

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
- R RPD outside accepted recovery limits
- 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 6
- 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#:

1610736

18-Oct-16

Client:

**Blagg Engineering** 

Project:

Hughes B 5A

Sample ID MB-28108

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

**PBS** 

Batch ID: 28108

RunNo: 38011

Prep Date:

SeqNo: 1184848

Units: mg/Kg

Qual

Analyte

10/17/2016

Analysis Date: 10/17/2016 PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Chloride

Result ND

1.5

TestCode: EPA Method 300.0: Anions RunNo: 38011

Sample ID LCS-28108 Client ID:

LCSS

SampType: LCS Batch ID: 28108

SeqNo: 1184849

Units: mg/Kg

Prep Date:

10/17/2016

Analysis Date: 10/17/2016

SPK value SPK Ref Val %REC

HighLimit

%RPD

**RPDLimit** 

**RPDLimit** 

Qual

Chloride

PQL

110

14 1.5 15.00 93.2

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Reporting Detection Limit
- Sample pH Not In Range P

RL

Sample container temperature is out of limit as specified

Page 3 of 6

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1610736

18-Oct-16

Client:

**Blagg Engineering** 

Project: Hugh	es B 5A		
Sample ID LCS-28084	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel	Range Organics
Client ID: LCSS	Batch ID: 28084	RunNo: 37981	
Prep Date: 10/17/2016	Analysis Date: 10/17/2016	SeqNo: 1183848 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %I	RPD RPDLimit Qual
Diesel Range Organics (DRO)	50 10 50.00	0 100 62.6 124	
Surr: DNOP	4.6 5.000	91.8 70 130	
Sample ID MB-28084	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel	Range Organics
Client ID: PBS	Batch ID: 28084	RunNo: 37981	
Prep Date: 10/17/2016	Analysis Date: 10/17/2016	SeqNo: 1183849 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %F	RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	9.9 10.00	98.8 70 130	0 0
Sample ID MB-28076	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel	Range Organics
Client ID: PBS	Batch ID: 28076	RunNo: 37981	
Prep Date: 10/14/2016	Analysis Date: 10/17/2016	SeqNo: <b>1184449</b> Units: <b>%Rec</b>	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %F	RPD RPDLimit Qual
Surr: DNOP	8.6 10.00	85.7 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
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits

Page 4 of 6

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

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1610736

18-Oct-16

Client:

**Blagg Engineering** 

Project:

Hughes B 5A

Sample ID MB-28066 Client ID:

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

PBS

Batch ID: 28066

RunNo: 37988

Prep Date:

10/14/2016

Analysis Date: 10/17/2016

Result

Result

ND

SeqNo: 1184548

Units: mg/Kg

Analyte

PQL SPK value SPK Ref Val

%REC LowLimit HighLimit %RPD

Qual

Gasoline Range Organics (GRO)

Surr: BFB

810

1000

81.3 68.3 144

**RPDLimit** 

Sample ID LCS-28066

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: Prep Date: 10/14/2016

LCSS

Batch ID: 28066

Analysis Date: 10/17/2016

PQL

5.0

RunNo: 37988

%REC

SeqNo: 1184549

Units: mg/Kg

%RPD **RPDLimit** 

Qual

Gasoline Range Organics (GRO) Surr: BFB

26 890 25.00 1000

SPK value SPK Ref Val

103 89.4

74.6 68.3

LowLimit

123 144

HighLimit

### 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
- R RPD outside accepted recovery limits
- S % 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 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 5 of 6

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1610736

18-Oct-16

Client:

**Blagg Engineering** 

Project:

Hughes B 5A

Sample ID MB-28066	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	d 8021B: Volatiles			
Client ID: PBS	Batch	n ID: 28	066	RunNo: 37988						
Prep Date: 10/14/2016	Analysis D	ate: 10	)/17/2016	8	SeqNo: 1	184561	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	80	120			

Sample ID LCS-28066	S	Tes	tCode: E	PA Method	8021B: Vola	tiles				
Client ID: LCSS Batch ID: 28066				RunNo: 37988						
Prep Date: 10/14/2016	Analysis D	ate: 10	0/17/2016	8	SeqNo: 1184562			(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	75.2	115		71.77.	
Toluene	0.96	0.050	1.000	0	96.1	80.7	112			
Ethylbenzene	0.99	0.050	1.000	0	98.6	78.9	117			
Xylenes, Total	2.9	0.10	3.000	0	97.9	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

### 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
- R RPD outside accepted recovery limits
- 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

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

# Sample Log-In Check List

Client Name: BLAGG	Work Order Number:	16107	36	s		RcptNo:	1
Received by/date:	10/15/16	, , ,	* **				
Logged By: Lindsay Mangin	10/15/2016 1:15:00 PM	И		Thereby!	Hogo	•	
Completed By: Lindsay Mangin	10/15/2016 2:10:50 PM	A		Juney!	Allego	)	
Reviewed By: As 1017116							
Chain of Custody							
1. Custody seals intact on sample bottles?		Yes		No		Not Present	
2. Is Chain of Custody complete?		Yes		No		Not Present	
3. How was the sample delivered?		Cour	er				
Log In							
4. Was an attempt made to cool the sample	es?	Yes		No		NA 🗆	
5. Were all samples received at a temperat	ture of >0° C to 6.0°C	Yes		No		NA 🗆	
6. Sample(s) in proper container(s)?		Yes		No			
7. Sufficient sample volume for indicated te	st(s)?	Yes		No			
8. Are samples (except VOA and ONG) pro	perly preserved?	Yes		No			
9. Was preservative added to bottles?		Yes		No		NA 🗆	
10.VOA vials have zero headspace?		Yes		No		No VOA Vials	
11. Were any sample containers received by	roken?	Yes		No		# of preserved	
40.5				No	П	bottles checked for pH:	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	i.	Yes		NO			>12 unless noted)
13. Are matrices correctly identified on Chair	of Custody?	Yes		No		Adjusted?	ox s
14. Is it clear what analyses were requested	?	Yes		No			
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No		Checked by:	
Special Handling (if applicable)			_		_		
16. Was client notified of all discrepancies w	ith this order?	Yes		No		NA 🗹	ı
Person Notified:	Date:	Abdaliwith con to execute	****			*	¥ 21
By Whom:	Via:	eMa	il 🗌	Phone [	Fax	☐ In Person	п.
Regarding:			ALEMAN A				
Client Instructions:							
17. Additional remarks:							
18. Cooler Information							
Cooler No Temp °C Condition		Seal Da	te	Signed E	Зу		
1 4.4 Good	Yes						





Chain-of-Custody Record			Turn-Around Time: SAME				HALL ENVIRONMENTAL														
Client: BLAGG ENGR. / BP AMERICA			☐ Standard	☑ Rush _	DAY	-												<b>ATC</b>			
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	1		Project Name						1											- -
Mailing Address: P.O. BOX 87		HUGHES B #5A				www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109															
		BLOOM	FIELD, NM 87413	Project #:				Tel. 505-345-3975 Fax 505-345-4107													
Phone #:		(505) 63	2-1199	Transfilm that the				Analysis Request													
email or Fax#:		Project Manager:										(4)				300.1)					
QA/QC Package:  ☑ Standard ☐ Level 4 (Full Validation)		NELSON VELEZ				s anly)	_			(S)		PO4,SC	PCB's			water - 30			Φ		
Accreditat	tion:			Sampler:	NELSON V		<b>₩₽</b> \$ (8021B)	TPH (Gas	DRO	F	ਜ਼	OSIN		NO <sub>2</sub> ,	/ 8082		1	/ w			sample N)
□ NELAF		☐ Other			∠z(Yes: ;		1	급	-	418	504	827	S	ြင္မ	/ sa	2	(A)	300.0	10 h		or N
	ype)	T		Sample Temp	erature: 4/,2		1	BE +	(GRO	pou	poq	o	etal	2	icid	(X	-j-	oil -		e .	S S
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO.	BTEX +	BTEX + MTBE	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 /		Grab sample	5 pt. composite sa Air Bubbles (Y or N)
10/14/16	0925	SOIL	5PC - TB @ 5' (95) - A	4 oz 1	Cool	-001	٧		٧			G.						٧			<b>V</b>
											ii.					-1	A 1	14			
10/14/16	0915	SOIL	EPC TD @ CI (21) D	102-1	Gool	-002	V		4				-					4		-	4
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Date: 19/14/16	Time:	Relinquished by:		Received by: Date Time    10   15   16   13   15   15   15   15   15   15   15			Ren	nark	s:	BILL DIRECTLY TO BP USING THE CIRCLED CONTACT WITH CORRESPONDING VID & REFERENCE # WHEN APPLICABLE;  Vance Hixon Steve Moskal John Ritchie											
10/ /14/10	Time: ZOIY If necessary	Relinquished by:					Ref		VID:	VHIXONEVB2 VMOS6HQFEC VRITCIWF											