<u>District I</u> 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.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: BP America Production Company Address: 200 Energy Court, Farmington, NM 87401 Facility or well name: HUBBARD LS 003 ANN 1 3004520674
API Number: 3004520674 OCD Permit Number: NUV V 12017 U/L or Qtr/Qtr P Section 30 Township 32N Range 11W County: San Juan Center of Proposed Design: Latitude 36.952093 Longitude -108.022907 NAD83 Surface Owner: Federal State Private Tribal Trust or Indian Allotment
Pit: Subsection F, G or J of 19.15.17.11 NMAC Low Chloride Drilling NOV 0 1 2017 Temporary: Drilling Workover Workover Low Chloride Drilling Fluid yes no Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 95
4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify

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								
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No								
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No								
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No								
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No								
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No								
Below Grade Tanks									
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)									
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No								
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No								
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	☐ 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 No Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the document 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 19.1 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:	NMAC 5.17.9 NMAC
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doct attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.1 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	

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 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan 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	luid Management Pit
☐ 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	
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 ☐ Site Reclamation 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	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain. FEMA map	Yes No
16.	
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. 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 cannows 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	.11 NMAC 15.17.11 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
e-mail address:	3/2017
18. OCD Approval: Permit Application (including closure plan) Cosure Plan (only). OCD Conditions (see attachment) OCD Representative Signature: Approval Date:	3/2017
OCD Approval: Permit Application (including closure plan) Cosure Plan (only). OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	
18. OCD Approval: Permit Application (including closure plan) Cosure Plan (only). OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 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	
OCD Approval: Permit Application (including closure plan) Cosure Plan (only). OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	complete this

22. Operator Closure Certification:	
	ith this closure report is true, accurate and complete to the best of my knowledge and
	closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
aris a arel a	
Signature: Un 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

HUBBARD LS 003

API No. 3004520674

Unit Letter P Section 30 T 32N R 11W

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	< 0.023
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.092
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<47
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. The field report and laboratory reports are attached.

7. BP shall notify the division District III office of its results on form C-141.

C-141 is attached.

8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.

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

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

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report.

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 well has been plugged and abandoned. The area is being reclaimed.

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 well has been plugged and abandoned. The area is being reclaimed.

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 well has been plugged and abandoned. The area is being reclaimed.

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 well has been plugged and abandoned. The area is being reclaimed.

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 well has been plugged and abandoned. The area is being reclaimed.

- 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 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

Revised April 3, 2017

Form C-141

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	cation	and Co	orrective A	ction	1			
						OPERA'	ГOR		Initia	al Report		Final Repor
Name of Co	ompany BP	America Produc	tion Compa	ny								1
Address 200	Energy Court	t, Farmington, N	M 87401									
Facility Na	me HUBBAR	D LS 003				Facility Typ	e: Natural Gas Wel	II				
Surface Ow	Name of Company BP America Production Company Address 200 Energy Court, Farmington, NM 87401 Facility Name HUBBARD LS 003 Facility Type: Natural Gas Well Surface Owner: Federal Mineral Owner: Federal API No. 3004520674 LOCATION OF RELEASE Unit Letter Section Township Range 30 South 11W 1,100 South 800 East San Juan Latitude 36.952093 NATURE OF RELEASE Type of Release:: none Source of Release:: none Below grade tank - 95 bbl Was Immediate Notice Given? Yes No Not Required ContactErin Garifalos Telephone No. (832) 609-7048 Facility Type: Natural Gas Well API No. 3004520674 API No. 3											
							LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/	West Line			1
P	30	32N	11W	1,100	Sou	ıth	800	Eas	st	5	san	Juan
			Latitud	_{le} 36.952093	Lo	ongitude1	08.022907	NAD	83			
				NAT	URE	OF REL	EASE					
Type of Rele	ase:: none)										
Source of Re	lease: belo	w grade ta	nk - 95	bbl			Hour of Occurrence	e:		Hour of Dis	covery:	
		Given?					Whom?		TI/U			
			Yes	No Not Re	equired							
By Whom?												
Was a Water	course Read		Yes [] No		If YES, Vo	olume Impacting t	the Wat	ercourse.			
If a Watercon	irce was Im	nacted Descr	he Fully	k								
Describe Cau	ise of Probl	em and Reme	dial Action	Samı Soil a	analys	is resulte	d for Chlorid	les, B	STEX, ar	nd TPH b	elow	BGT
Describe Are	a Affected	and Cleanup A	Action Tak	No actio		_		ory a	nalysis d	determin	ed no)
regulations a public health should their of or the environment	Il operators or the envir operations h nment. In a	are required to ronment. The ave failed to a ddition, NMO	acceptant acceptant dequately CD accep	nd/or file certain rece of a C-141 reporting and received	elease no ort by the emediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final Roon that pose a three	etive act eport" of eat to g	ions for rele loes not reli round water	eases which eve the oper , surface wa	may en rator of ter, hun	danger liability nan health
Signature:	rin g	orifalo	4				OIL CON			DIVISIO	<u>N</u>	
Printed Name	Erin G	arifalos				Approved by	Environmental Sp	pecialis	t:			
		onmenta	l Coo	rdinator	1	Approval Dat	re:		Expiration 1	Date:		
E-mail Addre	ess: erin.	garifalos	@bp.	com	(Conditions of	Approval:			Attached		
Date: Octob				(832) 609-7048						Attached		
Attach Addi	nonal Shee	ets If Necess	ary									

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

August 15, 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: HUBBARD LS 003

API#: 3004520674

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 18, 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

From:

Moskal, Steven

To:

Buckley, Farrah (CH2M HILL); Smith, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa, Fields@state.nm.us)

Cc:

jeffcblagg@aol.com; blagg njv@yahoo.com; Garifalos, Erin; Beebe, Sabre

Subject: Date: RE: BP Pit Close Notification - ATLANTIC LS 004 Tuesday, August 15, 2017 10:07:04 AM

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

August 15, 2017

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

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

HUBBARD LS 003 API 30-045-20674 (P) Section 30– T32N – R11W 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 due to the production well being plugged and abandoned. We anticipate this work to start on August 18, 2017 at 8:00 AM.

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 Field Environmental Coordinator Phone: (505) 330-9179



This email and any attachments are intended only for the addressee(s) listed above and may 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.

	20674 A			
FIELD REPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: PAGE #: 1 o	f1			
SITE INFORMATION: SITE NAME: HUBBARD LS #3 DATE STARTED: 08/1	8/17			
QUAD/UNIT: P SEC: 30 TWP: 32N RNG: 11W PM: NM CNTY: SJ ST: NM DATE FINISHED:				
1/4-1/4/FOOTAGE: 1,100'S / 800'E NE/NW LEASE TYPE: FEDERAL / STATE / FEE / INDIAN ENVIRONMENTAL SPECIALIST(S): J(Contractor: BP-S.BEEBE	CB			
REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: 36.95214 X 108.02296 GL ELEV.: 6	530'			
1) 95 BGT (SW/DB) GPS COORD.: 36.952093 X 108.022907 DISTANCE/BEARING FROM WH.: 25', SZ				
2) GPS COORD.: DISTANCE/BEARING FROM W.H.:				
3) GPS COORD.: DISTANCE/BEARING FROM W.H.:				
4) GPS COORD.: DISTANCE/BEARING FROM WH.:				
SAMPLING DATA: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL	OVM READING			
1) SAMPLE ID: 95 BGT 5-pt. @ 5' SAMPLE DATE: 08/18/17 SAMPLE ID: 0815 LAB ANALYSIS: 8015B/8021B/300.0 (CI)	(ppm) 1.4			
1) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: LAB ANALYSIS: SAMPLE TIME: SAMPLE TIME: LAB ANALYSIS: SAMPLE TIME: SAMPLE TIME: LAB ANALYSIS: SAMPLE TIME:	1			
3) SAMPLE ID:				
4) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:				
5) SAMPLE ID: SAMPLE TIME: LAB ANALYSIS:				
SOIL DESCRIPTION: SOIL TYPE: SAND) SILTY SAND / SILTY CLAY / CLAY / GRAVEL / OTHER SOIL COLOR: DARK YELLOWISH ORANGE COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): LOOSE FIRM / DENSE / VERY DENSE MOISTURE: DRY SLIGHTLY MOIST MOIST / WET / SATURATED / SUPER SATURATED SAMPLE TYPE: GRAB COMPOSITE + FOF PTS. 5 ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION - DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION - APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES NO EXPLANATION - EQUIPMENT SET OVER RECLAIMED AREA: YES NO EXPLANATION -	LY PLASTIC			
OTHER: GAS WELL RECENTLY PLUGGED & ABANDONED (P&A).				
EXCAVATION DIMENSION ESTIMATION: NA ft. X NA ft. EXCAVATION ESTIMATION (Cubic Yards) :	NA			
DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: >1,000' NMOCD TPH CLOSURE STD: 1,000'	00 ppm			
SITE SKETCH BGT Located: off on site PLOT PLAN circle: attached OMM CALIB. READ. = 99.8 ppr	n RF =0.52			
ABOVE-GRADE PIPING P&A MARKER MISCELL. NOT	8/18/17			
METER RUN REF #:				
FENCE VID:				
PJ#:				
Pormit data(s): 06/14	L/10			
PBGTL BERM OCD Appr. date(s): 04/08				
Tank OVM = Organic Vapor Met	er			
B.G. BGT Sidewalls Visible: Y / (1)	(v			
X - S.P.D.	N			
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~= APPROX.; W.H. = WELL HEAD; BGT Sidewalls Visible: Y / I	J.			
	,			
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.				

Analytical Report

Lab Order 1708B71

Date Reported: 8/25/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 95 BGT 5-pt @ 5'

Project: HUBBARD LS 3

Collection Date: 8/18/2017 8:15:00 AM

Lab ID: 1708B71-001

Matrix: SOIL

Received Date: 8/19/2017 11:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20	8/21/2017 12:28:40 PM	33475
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/21/2017 11:18:44 AM	33469
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/21/2017 11:18:44 AM	33469
Surr: DNOP	89.8	70-130	%Rec	1	8/21/2017 11:18:44 AM	33469
EPA METHOD 8015D: GASOLINE RANGI	Ε				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/21/2017 11:50:17 AM	G45098
Surr: BFB	94.6	54-150	%Rec	1	8/21/2017 11:50:17 AM	G45098
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	8/21/2017 11:50:17 AM	B45098
Toluene	ND	0.046	mg/Kg	1	8/21/2017 11:50:17 AM	B45098
Ethylbenzene	ND	0.046	mg/Kg	1	8/21/2017 11:50:17 AM	B45098
Xylenes, Total	ND	0.092	mg/Kg	1	8/21/2017 11:50:17 AM	B45098
Surr: 4-Bromofluorobenzene	103	66.6-132	%Rec	1	8/21/2017 11:50:17 AM	B45098

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

011			stody Record	Turn-Around		SAME				Н	AL	LE	EN	VII	RO	NI	ЧE	NT	AL	
	BP 1	AMERIC	A	☐ Standard Project Name														ATC		7
Mailing	BLAGG	Engli	reering Ivc.		BARD LS	1 7	-			١	ww.	halle	nviro	nmer	tal.c	om				
Iviaining	Addiess	. •		Project #:	DAKU L.	3 3	-						Albuq	uerqu	ıe, N	M 87	109			
Dhone	4. 150	rl 226	1/07	1 10,000 #.				Te	l. 50	5-34	5-397	-	Fax alysis		_	-410°	7		17	
email o		5) 34	0-1183	Project Mana	der:			2	6			Alte		-	lues		1		7	
	Package:			1	_	11-41	(8021)	s on	MR		;	اي	S	PCB's						
Stan	dard		☐ Level 4 (Full Validation)	511	EVE Mos	SOIC	8) 8,	(Ga	30/			SIMS)	PO.	2 2						
Accredi		- O#		Sampler: J			TMB's	+ MTBE + TPH (Gas only)		=		8270 \$	စို	808						2
		□ Othe	er			□ No.]	+ Ш	GRO SR	418	504	or 82	s S	es/		(OA)	141			ō
	(Type)_			T		AND MANAGEMENT	MTRE	MTB	2B (thod	thod	310	Meta	ticid	(A)	mi-V	RUD			es (
Date	Time	Matrix	Sample Request ID	Container	Preservative	HEAL No.	+	+ ×	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCKA 8 Metals Anions (F.Cl.NO ₃ .NO ₃ .PO ₄ .SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHORDE			Air Bubbles (Y or N)
				Type and #	. , , , ,	HOXBT	BTEX	BTEX	TPH	표	EDB	PAH S	A Pie	3081	3260	3270	0			Air B
8/18/1007	0815	SOIL	95 BGT 5-pt 0.5	402×1	COL	-601	X		X					1			X		\top	\uparrow
												\top								\Box
																				\Box
																				\Box
											\perp	\perp		\perp						
							_				_	_		_	_					\perp
Deter	Time:	Relinguish	ad bur	Received by:		Date Time	Day				20									Щ
Date:	0941		1 Bogy		Subelt	Pate Time 8/18/2017 0941	Ker	nark		L	BP KT	SA	+BRE	. 3	EF R	. 1	ne	Po	T.	5
Date:	Time:	Religuish		Received by:	June /									_		- 0	<u>د ۲</u>	10	-14	-0
8/18/17	2050	111	\ Was	V (1	and-	08/19/17														
1-4/1		samples sub	mitted to Hall Environmental may be subc	contracted to other a	ccredited laboratoric	es. This serves as notice of thi	s possi	bility.	Any su	ib-conti	racted o	data wil	ll be cle	arly no	tated o	n the a	nalytic	al report	t.	

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708B71

25-Aug-17

Client:

Blagg Engineering

Project:

HUBBARD LS 3

Sample ID MB-33475

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 33475

RunNo: 45096

Prep Date: 8/21/2017

Analysis Date: 8/21/2017

SeqNo: 1428808

Units: mg/Kg

RPDLimit

Analyte

PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Qual

Chloride

Result ND

1.5

PQL

1.5

TestCode: EPA Method 300.0: Anions

Sample ID LCS-33475 Client ID: LCSS

Batch ID: 33475

RunNo: 45096

Prep Date:

8/21/2017

SampType: Ics

Analysis Date: 8/21/2017

SeqNo: 1428809

Units: mg/Kg

RPDLimit

Qual

Analyte

Result

15.00

91.2

%RPD HighLimit

Chloride

14

SPK value SPK Ref Val %REC LowLimit

110

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

J Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 3 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1708B71

25-Aug-17

Client:

Blagg Engineering

Project:

HUBBARD LS 3

Sample ID LCS-33469	SampT	ype: LC	s	Test	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	Batch ID: 33469 RunNo: 45091										
Prep Date: 8/21/2017	Analysis D	ate: 8/	21/2017	S	eqNo: 1	427503	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	50	10	50.00	0	100	73.2	114					
Surr: DNOP	4.6		5.000		91.2	70	130					

Sample ID MB-33469	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 33469			RunNo: 45091						
Prep Date: 8/21/2017	Analysis D	ate: 8/	21/2017	S	SeqNo: 1	427504	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.7	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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1708B71

25-Aug-17

Client:

Blagg Engineering

Project:

HUBBARD LS 3

Sample ID RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G45098

RunNo: 45098

Prep Date:

Surr: BFB

Analysis Date: 8/21/2017

SeqNo: 1427987

Units: mg/Kg

Analyte

Result PQL ND 5.0 SPK value SPK Ref Val %REC

HighLimit LowLimit

54

%RPD

Qual

Gasoline Range Organics (GRO)

930

1000

93.1

150

RPDLimit

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: G45098

RunNo: 45098

Prep Date:

Analysis Date: 8/21/2017

5.0

SeqNo: 1427988

Units: mg/Kg

125

Analyte Gasoline Range Organics (GRO)

SPK value SPK Ref Val %REC PQL

80.2

LowLimit HighLimit 76.4

%RPD **RPDLimit**

Qual

20

Result

25.00

101

54

Surr: BFB

1000

1000

0

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
- E Value above quantitation range

Sample pH Not In Range

- Analyte detected below quantitation limits
- RL Reporting Detection Limit

P

Sample container temperature is out of limit as specified

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1708B71

25-Aug-17

Client:

Blagg Engineering

Project:

HUBBARD LS 3

Sample ID RB	SampType: MBLK			Tes						
Client ID: PBS	Batch ID: B45098			RunNo: 45098						
Prep Date:	Analysis Date: 8/21/2017			SeqNo: 1428010			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	1.1		1.000		105	66.6	132			

Sample ID 100NG BTEX LC	Samp	SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Bato	Batch ID: B45098			RunNo: 45098					
Prep Date:	Analysis I	Date: 8/	21/2017	SeqNo: 1428011			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.4	80	120			
Toluene	0.92	0.050	1.000	0	91.8	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	66.6	132			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 8



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 Numb	er: 1708B71	RcptNo: 1				
Received By:	Anne Thorne	8/19/2017 11:00:00	AM	am Il-	_			
Completed By:	Anne Thorne	8/19/2017 11:20:27	AM	On Il	_			
Reviewed By:	JU 8.2117							
Chain of Cus	<u>tody</u>							
1. Custody sea	Is intact on sample bottle	s?	Yes	No 🗆	Not Present			
2. Is Chain of C	Custody complete?		Yes 🗸	No 🗌	Not Present			
3. How was the	sample delivered?		Courier					
Log In								
4. Was an atte	mpt made to cool the sar	nples?	Yes 🗹	No 🗆	na 🗆			
5. Were all san	nples received at a tempe	erature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆			
6. Sample(s) in	proper container(s)?		Yes 🗹	No 🗆				
7. Sufficient sar	mple volume for indicated	i test(s)?	Yes 🗹	No 🗆				
8. Are samples	(except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌				
9. Was preserv	ative added to bottles?		Yes	No 🗹	NA 🗆			
10.VOA vials ha	ve zero headspace?		Yes	No 🗆	No VOA Vials			
11. Were any sa	imple containers received	i broken?	Yes	No 🗹	# of preserved			
12 Dose papers	ork match bottle labels?		Yes 🗸	No 🗆	bottles checked for pH:			
	pancies on chain of custo	dy)	165	110	-	>12 unless noted)		
13. Are matrices	correctly identified on Ch	nain of Custody?	Yes 🗹	No 🗌	Adjusted?			
	at analyses were request		Yes 🗹	No .				
	ling times able to be met customer for authorization		Yes 🗹	No 🗆	Checked by:			
(ii iio) iiodiy		/						
Special Handi	ling (if applicable)							
16. Was client no	otified of all discrepancies	with this order?	Yes	No 🗆	NA 🗹			
Person	Notified:	Date	AND THE RESTAURABLE OF THE PROPERTY OF THE PRO	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT				
By Who	THE REAL PROPERTY AND ADDRESS OF THE PERSON	Via:	eMail P	hone Fax	☐ In Person			
Regard	Control to control of the control of							
	nstructions:							
17. Additional re	marks:							
18. Cooler Infor		Lead Inter Lead to	Seel Date 1	Claused By 1				
Cooler No	Temp °C Condition 1.8 Good	Seal Intact Seal No	Seal Date	Signed By				
L								



