District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-144 Revised April 3, 2017

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

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

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 ordinance.
Operator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: ARNAUD A 003
API Number: 3004528184 OCD Permit Number:
U/L or Qtr/Qtr A Section 20 Township 32N Range 09W County: San Juan
API Number: 3004528184 OCD Permit Number: U/L or Qtr/Qtr A Section 20 Township 32N Range 09W County: San Juan Center of Proposed Design: Latitude 36.974402 Longitude -107.796807 NAD83
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

Volume: 95 bbl Type of fluid: Produced Water	ADD 1 a 2010
Tank Construction material: Steel	APR 1 3 2018
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	ISTRICT III
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off ☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other ☐ Double wall/ Double bottom; sidewalls not	visible
Liner type: Thicknessmil	
4.	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office	e for consideration of approval.
5.	

TANK A

Volume:

bbl Dimensions: L

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______

☐ String-Reinforced

Liner Seams: Welded Factory Other

Below-grade tank: Subsection I of 19.15.17.11 NMAC

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 acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.									
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 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											
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site											
Permanent Pit or Multi-Well Fluid Management Pit											
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No										
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No										
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site											
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No										
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:											
II. Multi Wall Elvid Management Bit Chealdist. Subsection D of 10 15 17 0 NIMAC											
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC											
Previously Approved Design (attach copy of design) API Number: or Permit Number:											

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	documents are
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	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 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
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	☐ NA ☐ 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
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 										
Within a 100-year floodplain FEMA map	Yes No									
- TENIA map										
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC										
17. Operator Application Certification:										
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ief.									
Name (Print): Title:										
Signature: Date:										
e-mail address: Telephone:										
18. OCD Approval: ☐ Permit Application (including closure plan) ☐ Glosure Plan (only) ☐ OCD Conditions (see attachment)	/									
OCD Representative Signature: Approval Date: 43	2018									
Title: Kniconnental Specialist 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. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 2/15/2018										
section of the form until an approved closure plan has been obtained and the closure activities have been completed.	oop systems only)									

22.									
Operator Closure Certification:									
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and									
belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.									
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator								
rame (rim).	This.								
avia a avel a									
Simother Wilhalos	2 April 10 2010								
Signature:	Date: April 12, 2018								
arin gorifoloo@hn.com	(822) 600 7049								
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

ARNAUD A 003

API No. 3004528184

Unit Letter A Section 20 T 32N R 09W

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

General Closure Plan

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

Notice is attached.

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

Notice was provided and is attached.

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)
 - d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
 - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)

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

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

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

The BGT was transported for recycling.

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.022
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.086
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<46
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. The location will be reclaimed when the well is plugged and abandoned.

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

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed once the well is plugged and abandoned.

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

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. Firench Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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.

Release Notification and Corrective Action															
OPERATOR ☐ Initial Report ■ Final Report Name of Company BP America Production Company Contact Erin Garifalos												Final Report			
								70.40							
		UD A 003	ırmıngto	n, NM 87401		Telephone No. (832) 609-7048 Facility Type: Natural Gas Well									
				Minoral C			- Tratarar or	40 111		200450	010/	1			
Surface Ow	ner: Fede	erai		Mineral C					APINO	300452	8184	+			
Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County _															
	20	32N	Range				930	East	Juan						
Α	20	3211		1,090	Nor			La	51		Jan	ouaii			
			Latitud	e36.974402	L	ongitude1	07.796807	NAD	083						
				NAT	URE	OF REL	EASE								
Type of Rele	ase:: none)					Release:: unkn			Recovered::					
Source of Re	lease: belo	w grade ta	nk - 95	obl		Date and F	Hour of Occurrence	ce:	Date and n/a	Hour of Dis	covery:	:			
Was Immedi	ate Notice (N D N D	. ,	If YES, To	Whom?								
D WII 0		Ш	Yes 🗸	No Not Re	equired	D . 11	,								
By Whom? Was a Water	course Read	ched?				Date and H	lour olume Impacting t	the Wat	ercourse.						
			Yes 🗸	No											
If a Watercon	irse was Im	pacted, Descr	ibe Fully.*												
Describe Cau	se of Proble	em and Reme	dial Action	Taken.*											
							beneath the								
					-		d for Chloric Field reports								
Decembe And	a Affactad	and Classian	A otion Tale		ile sta	iliualus. I	Telu Teports	anu	laborato	ry results	ale	attacrieu.			
Describe Are	a Affected	and Cleanup A	Action Tak	No actio	n nec	essary. F	inal laborate	ory a	nalysis d	determin	ed no	0			
				remedia	l actio	n is requ	ired.								
							knowledge and und perform correct								
public health	or the envir	ronment. The	acceptanc	e of a C-141 repo	ort by the	e NMOCD m	arked as "Final R	eport"	does not reli	eve the oper	ator of	liability			
							on that pose a three the operator of								
		ws and/or regu		tance of a C-1+1	report di	oes not renev						other			
	150.	usel a				OIL CONSERVATION DIVISION									
Signatura	run g	orifalo	24												
Signature:	Frin C	Carifoloo				Approved by	Environmental S	pecialis	st:						
		arifalos													
Title: Field	Enviro	onmenta	d Coo	dinator		Approval Dat	e:		Expiration 1	Date:					
E-mail Addre	es: erin.	garifalos	@bp.	com		Conditions of	Approval:			Attached					
Date: April	12 2018		Phone	(832) 609-70	148					Attached					
* Attach Addi				(302) 003-70	710										



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

February 9, 2018

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: ARNAUD A 003 API #: 3004528184

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 February 12, 2018. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

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

Sincerely,

Erin Garifalos

BP America Production Company

From:

Buckley, Farrah (CH2M HILL)

To:

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

Cc:

jeffcblagg@aol.com; blagg_njv@yahoo.com; Garifalos, Erin; Beebe, Sabre; Moskal, Steven

Subject: Date: BP Pit Close Notification - ARNAUD A 003 Friday, February 09, 2018 10:54:57 AM

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

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

February 9, 2018

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

RE:

Notice of Proposed Below-Grade Tank (BGT) Closure

ARNAUD A 003 API 30-045-28184 (A) Section 20 – T32N – R9W 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 a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around February 12, 2018.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator – San Juan Cell: 832-609-7048

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

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.

	10				
l CHENT	IC.	API#: 30045	28184		
CLIENT:		LOOMFIELD, NN 15) 632-1199	WI 0/413	TANK ID	Α
				(if applicble):	
FIELD REPORT:	(circle one): BGT CONFIRMATION	/ RELEASE INVESTIGATION / (OTHER:	PAGE #: 1	of1_
SITE INFORMATION	I: SITE NAME: ARNAU	JD A #3		DATE STARTED: 0	2/12/18
QUAD/UNIT: A SEC: 20 TWP:	32N RNG: 9W PM:	NM CNTY: SJ	ST: NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1,090'N / 930	D'E NE/NE LEASET	TYPE: FEDERAL STATE	/ FFF / INDIAN		
		STRIKE ONTRACTOR: BP - S. BE		ENVIRONMENTAL SPECIALIST(S):	NJV
REFERENCE POINT	WELL HEAD (W.H.) GPS	36.9743	33 X 107.79720	GL ELEV.:	6,786'
1) 95 BGT (DW/DB)	GPS COORD.: 36.9	974402 X 107.796807	DISTANCE/BE/	ARING FROM W.H.: 115',	S71.5W
2)	GPS COORD.:		DISTANCE/BE/	ARING FROM W.H.:	
3)	GPS COORD.:		DISTANCE/BE/	ARING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BE/	ARING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # C				OVM READING
1) SAMPLE ID: 5PC - TB @ 5'				15B/8021B/300.0 (CI)	(ppm)
1) SAMPLEID:				100/00210/000.0 (01)	IVA
3) SAMPLE ID:					
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
5) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND	SILT / SILTY CLAY / CLAY / GRAVI	EL / OTHER		
	LLOWISH BROWN	PLASTICITY (CLAYS): NON PLASTI		COHESIVE / MEDIUM PLASTIC / I	HIGHLY PLASTIC
COHESION (ALL OTHERS): NON COHESIVE SLIGHTL		DENSITY (COHESIVE CLAYS &			
CONSISTENCY (NON COHESIVE SOILS): LC		HC ODOR DETECTED: YES NO	EXPLANATION -		
MOISTURE: DRY/SLIGHTLYMOIST/WO					
DISCOLORATION/STAINING OBSERVED: YES		ANY AREAS DISPLAYING WETNE	SS: YES NO EXPLA	NATION -	
SITE OBSERVATION		VECKNO EVDI ANATIONI			
APPARENT EVIDENCE OF A RELEASE OBSERVE					
EQUIPMENT SET OVER RECLAIMED AREA:		Z-NATION			
OTHER: NMOCD OR BLM REPS. NOT PR	RESENT TO WITNESS CONFIRMA	ATION SAMPLING.			
EXCAVATION DIMENSION ESTIMATION:	NA ft. X NA	ft. X NA ft.	EXCAVATION ES	TIMATION (Cubic Yards) :	NA
	NEAREST WATER SOURCE: >1,000			,	5,000 ppm
SITE SKETCH	BGT Located: off on sit				ррии
SITE SKETCH	BGT Located. Oil / oil sit	e PLOT PLAN circ	A	CALIB. READ. = NA	ppm RF =1.00
				I CALIB. GAS = NA	ppm [
			N TIME	E: NA am/pm DATE:	NA
	PBGTI	L	' [MISCELL. N	OTES
	T.B. ~ 5		l P	o: 430090306 3	3
	BERM B.G.		A	FE#: X7-007OG-	
	$\left(\begin{array}{c} x \\ x \\ x \end{array}\right)$			io#: 1900400076	
		FENCE	-	SL#: 745277	
TO W.H. &			1 -		5/02/10
PUMP JACK	*		-	3-4-	1/15/16
				nk OVM = Organic Vapo	r Meter
		,	1 -	BGT Sidewalls Visible: \	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO	ON DEDDESSION: B.C DELOINICONDE: D DE		(- S.P.D.	BGT Sidewalls Visible:	Y / N
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL				/lagnetic declination:	
APPLICABLE OR NOT AVAILABLE; SW - SINGLI	E WALL; DW - DOUBLE WALL; SB - SINGLE BOT		1	nagrietic deciliation.	10 L
NOTES: GOOGLE EARTH IMAGI	ERY DATE: 10/5/2016.	ONSITE: 02/12/	18		

Analytical Report

Lab Order 1802689

Date Reported: 2/15/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

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

Project: ARNAUD A 3

Collection Date: 2/12/2018 9:15:00 AM

Lab ID: 1802689-001

Matrix: SOIL

Received Date: 2/13/2018 6:45:00 AM

Analyses	es Result PQL Qual		al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	MRA
Chloride	ND	30	mg/Kg	20	2/13/2018 11:07:49 AM	36495
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/13/2018 10:14:46 AM	36489
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/13/2018 10:14:46 AM	36489
Surr: DNOP	96.7	70-130	%Rec	1	2/13/2018 10:14:46 AM	36489
EPA METHOD 8015D: GASOLINE RANG	E				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	2/13/2018 10:14:49 AM	G49081
Surr: BFB	90.1	15-316	%Rec	1	2/13/2018 10:14:49 AM	G49081
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.022	mg/Kg	1	2/13/2018 10:14:49 AM	B49081
Toluene	ND	0.043	mg/Kg	1	2/13/2018 10:14:49 AM	B49081
Ethylbenzene	ND	0.043	mg/Kg	1	2/13/2018 10:14:49 AM	B49081
Xylenes, Total	ND	0.086	mg/Kg	1	2/13/2018 10:14:49 AM	B49081
Surr: 4-Bromofluorobenzene	86.5	80-120	%Rec	1	2/13/2018 10:14:49 AM	B49081

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Chain-of-Custody Record			Tum-Around 1	Time:	SAME				_				NIX	/TE	20		ME	:NT	ra'	,~ B	-	
Client: BLAGG ENGR. / BP AMERICA			☐ Standard	Rush _	DAY)		1	K										AT(
				Project Name:															-	Ur	. .	
Mailing A	ddress:	P.O. BO	X 87	ARNAUD A #3					www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109													
		BLOOM	FIELD, NM 87413	Project #:	-		İ)5-34												
Phone #:	Phone #: (505) 632-1199			1	•		·						-		Red							
email or Fax#:			Project Manag	jer:	· - · · · · · · · · · · · · · · · · · · 												1					
QA/QC Package: Standard Level 4 (Full Validation)			SABRE BEE	BE	FMB5 (8021B)	only)	MRO)			IS)		04,504	PCB's			er - 300.1)			اله			
Accreditat	tion:		· · · · · · · · · · · · · · · · · · ·	Sampler:	NELSON V	ELEZ ny	F (8(+ TPH (Gas	RO/	न	(1:	OSIIV		1021	8082			/ water		١	ā	
□ NELAF		☐ Other	·	on the	WVEC STATE		#	ΉH	0/0	418	504	827	S	, 0	ss/		(V)	000			te ss	Š
□ EDD (Type)	7			untilesa es T		ŧ	BE +	GR.	P	pod) or	etal	D,	icid	₹	칠	oli - 3		용	posi	يخ
Date	Time	Matrix	Sample Request ID	A Container Type and # Month Ket	Preservative Type	HEALING	BTEX +**	BTEX + MTBE	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (SemI-VOA)	Chloride (soil - 300.0 /		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
2/12/18	0915	SOIL	5PC-TB@ 5 '(95)	4 oz 1	Cool	701	V		V									7			٧	
								-												\exists		
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Date:	Time:	Relinquish	ed by:	Received by:	1	Date Time	Ren	narks	:	BILLI	NG IN	FORM	ΙΑΠΟ	N SH	onro	BE FO	RWA	RDED	FRON	1 BP.	IF NO	п.
याथ। ८	100	90	luly	July	Jak	2/12/15 1325	PLEASE CONTACT SABRE BEEBE.															
Date:	Time: 2012	Relinquish	ed by: U	Received by: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	200	Date Time 1/3/18 06 45																
	If necessary, eamptee submitted to Hall Environmental may be so			subcontracted to other	accredited (aboratorle		f this p	ossibi	lity. A	ny sub	contr	acted	data v	vili be	clearly	y notel	ed on	the er	nalytica	d repo	rt.	

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802689

15-Feb-18

Client:

Blagg Engineering

Project:

ARNAUD A 3

Sample ID MB-36495

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 36495

PQL

PQL

RunNo: 49085

SPK value SPK Ref Val %REC LowLimit

Prep Date: 2/13/2018

Analysis Date: 2/13/2018

SeqNo: 1583564

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

Client ID:

Result ND 1.5

Sample ID LCS-36495 LCSS

SampType: Ics Batch ID: 36495 TestCode: EPA Method 300.0: Anions

RunNo: 49085

Prep Date: 2/13/2018

Analysis Date: 2/13/2018

SeqNo: 1583565

Units: mg/Kg

HighLimit

%RPD **RPDLimit**

Analyte Chloride

Result

1.5

15.00

92.3

Qual

14

SPK value SPK Ref Val %REC

90

LowLimit

110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802689

15-Feb-18

Client: Project: Blagg Engineering ARNAUD A 3

Sample ID LCS-36489

SampType: LCS

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

Client ID: LCSS

Batch ID: 36489

RunNo: 49069

Prep Date: 2/13/2018

Analysis Date: 2/13/2018

10

SeqNo: 1579514

Units: mg/Kg

Analyte

Result PQL

Diesel Range Organics (DRO)

46 4.4 50.00 5.000

SPK value SPK Ref Val %REC LowLimit 91.4 87.3

HighLimit %RPD

130

130

RPDLimit

Qual

Qual

Sample ID MB-36489

Result

ND

ND

9.3

SampType: MBLK

Analysis Date: 2/13/2018

PQL

10

SPK value SPK Ref Val %REC LowLimit

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

%RPD

Client ID:

Surr: DNOP

Sur: DNOP

Batch ID: 36489

RunNo: 49069 SeqNo: 1579515

Units: mg/Kg

HighLimit

RPDLimit

Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)

Prep Date: 2/13/2018

50 10.00

93.0

70

70

70

130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- R Analyte detected in the associated Method Blank
- E Value above quantitation range
- J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Analyte detected below quantitation limits

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802689

15-Feb-18

Client:

Blagg Engineering

Project:

ARNAUD A 3

Sample ID RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: G49081

PQL

PQL

5.0

RunNo: 49081

Prep Date:

Surr: BFB

Analysis Date: 2/13/2018

SPK value SPK Ref Val %REC

SPK value SPK Ref Val

Units: mg/Kg

Analyte

Result

SeqNo: 1581197

HighLimit

RPDLimit

Qual

Gasoline Range Organics (GRO)

ND 940

1000

94.4

%REC

316

%RPD

Sample ID 2.5UG GRO LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS SampType: LCS

RunNo: 49081

Batch ID: G49081

Analysis Date: 2/13/2018

SeqNo: 1581198

Units: mg/Kg

LowLimit **HighLimit**

%RPD **RPDLimit** Qual

Analyte Gasoline Range Organics (GRO)

Prep Date:

Result 25

5.0 25.00 101

75.9 15 131

Surr: BFB

1100

1000

113

LowLimit

15

316

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 ND

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits J

P Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802689

15-Feb-18

Client: Project: Blagg Engineering

Sample ID RB

ARNAUD A 3

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

LowLimit

80

Client ID: **PBS**

Batch ID: **B49081**

RunNo: 49081

Prep Date:

Client ID:

Prep Date:

Analysis Date: 2/13/2018

SeqNo: 1581204

Units: mg/Kg

HighLimit

%RPD

%RPD

RPDLimit

RPDLimit

Qual

Qual

Analyte Result PQL SPK value SPK Ref Val %REC ND 0.025 Benzene Toluene ND 0.050 Ethylbenzene ND 0.050 ND Xylenes, Total 0.10 Surr: 4-Bromofluorobenzene 0.94

Sample ID 100NG BTEX LCS

LCSS

SampType: LCS Batch ID: **B49081** TestCode: EPA Method 8021B: Volatiles

RunNo: 49081

94.3

Analysis Date: 2/13/2018

1.000

SeqNo: 1581205

Units: mg/Kg

120

Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit LowLimit Benzene 0.89 0.025 1.000 0 88.6 77.3 128 Toluene 0.84 0.050 1.000 0 84.3 79.2 125 Ethylbenzene 0.88 0.050 1.000 80.7 0 88.3 127 Xylenes, Total 2.7 0.10 3.000 0 88.8 81.6 129 Surr: 4-Bromofluorobenzene 1.000 1.0 101 80 120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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
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- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Page 5 of 5



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

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1802689 RcptNo: 1 Received By: Anne Thorne 2/13/2018 6:45:00 AM Completed By: Anne Thome 2/13/2018 6:59:01 AM Reviewed By: Mr 2/13/18 Chain of Custody No 🗌 Not Present Yes V 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In Yes 🗸 No 🗌 NA 🗌 3. Was an attempt made to cool the samples? NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C 5. Sample(s) in proper container(s)? No 🔲 6. Sufficient sample volume for indicated test(s)? No 🗌 Yes V 7. Are samples (except VOA and ONG) properly preserved? Yes No 🗸 NA 🗆 8. Was preservative added to bottles? Yes No 🗌 No VOA Vials 9. VOA vials have zero headspace? Yes 🗌 No 🗸 10. Were any sample containers received broken? # of preserved bottles checked No 🖸 for pH: 11. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes V No . 12. Are matrices correctly identified on Chain of Custody? No 🗌 13. Is it clear what analyses were requested? Yes V Checked by: Yes V No 🗌 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No . NA V Person Notified: Date I By Whom: ☐ eMail ☐ Phone ☐ Fax ☐ In Person Via: Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp C Condition Seaf Intact Seal No Seaf Date Signed By 1.0 Good



