<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 Department Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, NM 87505

OIL CONS. DIV DIST. 3

SEP 15 2017

Form C-144 Revised June 6, 2013

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

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

16053	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 environment. No	that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the 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 OGRID #: 778
Address: 20	0 Energy Court, Farmington, NM 87401
Facility or well	name: Mansfield #1A
API Number:	3004522026 OCD Permit Number:
U/L or Qtr/Qtr	A Section 19 Township 30N Range 9W County: San Juan
Center of Propo	osed Design: Latitude <u>36.80202</u> Longitude <u>-107.81483</u> NAD: □1927 ⊠ 1983
Surface Owner:	Federal State Private Tribal Trust or Indian Allotment
Temporary: Permanent [Lined U String-Rein	ection F, G or J of 19.15.17.11 NMAC Drilling
	le tank: Subsection I of 19.15.17.11 NMAC 21 bbl Type of fluid: Produced water
Tank Construct	ion material: Steel
☐ Secondary	containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible side	ewalls and liner Visible sidewalls only Other Single wall/ Double bottom; sidewalls not visible
Liner type: Thi	ickness mil
4. Alternative Submittal of an	Method: 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,	Lamital
institution or church)	поѕриш,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
6. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.16.8 NMAC	
R.	
<u>Variances and Exceptions:</u> 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. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <u>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below.</u> 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	Yes No
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.	
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.	
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC	
☐ Previously Approved Design (attach copy of design) API Number: or Permit Number:	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	cuments are
☐ 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 and 19.15.17.13 NMAC ☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC	.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	documents are
attached. ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC ☐ Nuisance or Hazardous Odors, including H₂S, Prevention Plan ☐ Emergency Response Plan ☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
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 Fl	uid Management Pit
Alternative Proposed Closure Method:	
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be described by the control of the state of the following items and the state of the following items and the state of the following items and the state of the following items are stated by the state of the following items and the state of the following items are stated by the state of the following items are stated by the state of the following items are stated by the stated by th	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	indened to the
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. P 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
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 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	
	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	Yes No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17 Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC 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 can Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	7.11 NMAC 9.15.17.11 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 be Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
e-mail address:	25/2017
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number:	25/2017
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:	g the closure report.
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: OCD Permit Number: 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 submittin The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not	g the closure report.
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: 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 submittin 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.	g the closure report.

22.	
Operator Closure Certification:	
	ted with this closure report is true, accurate and complete to the best of my knowledge and cable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature: Vain garifialos	Date: September 14, 2017
e-mail address: erin garifalos@hn.com	Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Mansfield #1A API No. 3004522026 Unit Letter A, Section 19, T30N, R9W

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
	21 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.018
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.073
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<u><46</u>
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.**

- 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
- 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 exceptation, with
- 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 area has been backfilled. 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. 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. 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. 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. 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.

 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.

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

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

Form C-141 Revised August 8, 2011

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

			Rele	ease Notific	atio	n and Co	orrective A	ction						
						OPERA'	ГOR		Initia	al Report	\boxtimes	Final Report		
Name of Co	mpany: B	P				Contact: Erin Garifalos								
		Court, Farmi	ngton, N	M 87401		Telephone No.: 832-609-7048								
Facility Nan	ne: Mansf	ield #1A				Facility Type: Natural gas well								
Surface Ow	ner: Fee			Mineral O	wner:	r: Fee API No. 3004522026								
				LOCA	TIO	N OF RE	LEASE							
Unit Letter	Section 19	Township 30N	Range 9W	Feet from the 815		South Line	Feet from the 850	East/We East	st Line	County: Sa	an Juar	1		
A	19	30IN												
			La	titude 36.802			de107.814	183°						
The CD 1				NAT	URE	OF REL			7.1 D	1.3	T / A			
Type of Release		u ama da tamb	21 551				Release: unknow lour of Occurrence			lecovered: N Hour of Dis				
Source of Re	lease: belov	v grade tank –	21 001			none		e: I	Date and	Hour of Dis	covery	none		
Was Immedia	ite Notice (Vac 🗸	No Not Re	annina d	If YES, To	Whom?							
By Whom?			i es	NO I NOT RE	quired	Date and H	Iour							
Was a Water	course Read	hed?					olume Impacting t	he Waterc	ourse					
was a water	ourse read		Yes 🛛	No		11 125, 70	rume impacting t	ne watere	ourse.					
If a Watercou	rse was Im	pacted, Descri	ibe Fully.*	:										
Describe Cau	se of Proble	em and Remed	dial Action	Taken.* Samplin	g of th	e soil beneath	the BGT was don	ne during i	removal.	Soil analys	is resul	ted for		
				standards. Field										
Describe Are	a Affected	and Cleanup A	Action Tak	en.* No action ne	essary	. Final labora	atory analysis dete	ermined no	remedia	l action is r	equired	1.		
I hereby certi	fy that the i	nformation gi	ven above	is true and comple	ete to t	he best of my	knowledge and u	nderstand	that purs	uant to NM	OCD ri	iles and		
				d/or file certain re										
				e of a C-141 repor										
				investigate and re										
federal, state,				tance of a C-141 r	eport d	oes not renev	e the operator of i	responsibil	lity for co	impliance w	ith any	otner		
rederal, state,	or rocar ray	ws and/or regu	nations.			OIL CONSERVATION DIVISION								
Signature:	rin gar	Galas					OIL COIN	OLICVII	TIOIT	DIVISIO	11			
						Approved by	Environmental S ₁	pecialist:						
Printed Name	: Erin Gari	falos			_									
Title: Field E	nvironment	al Coordinato	r			Approval Dat	e:	Ex	piration I	Date:				
E-mail Addre	ss: erin.gar	ifalos@bp.co	n			Conditions of	Approval:							
							- PP			Attached				
Date: Septem	ber 14, 20	17	Pho	ne: 832-609-7048										

^{*} Attach Additional Sheets If Necessary

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

June 23, 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: MANSFIELD 001A

API #: 3004522026

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 June 26, 2017. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

If witnessing of the tank removal is required please contact me for a specific time (505)-326-9497.

Sincerely,

Steven Moskal

BP America Production Company

Garifalos, Erin

From:

Buckley, Farrah (CH2M HILL)

Sent:

Friday, June 23, 2017 6:47 AM

To:

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

Cc:

'jeffcblagg@aol.com'; 'blagg_njv@yahoo.com'; Moskal, Steven

Subject:

BP Pit Close Notification - MANSFIELD 001A

BP America Production Company

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

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

June 23, 2017

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

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

MANSFIELD 001A API 30-045-22026 (A) Section 19 – T30N – R09W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT and a 21bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around June 26, 2017.

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

Sincerely,

Steven Moskal BP Field Environmental Coordinator (505) 326-9497

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

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

CLIENT: BP	P.O. BOX 87, BL	OOMFIELD, NM 8	7413	TANKID	
	(505	5) 632-1199		(if applicble):	B
FIELD REPORT:	(circle one): BGT CONFIRMATION /	RELEASE INVESTIGATION / OTHER	R:	PAGE #: 1	of 1
SITE INFORMATION	SITE NAME: MANSFI	ELD #1A		DATE STARTED: 06	/26/17
QUAD/UNIT: A SEC: 19 TWP:	30N RNG: 9W PM:	NM CNTY: SJ S	ST: NM	DATE FINISHED:	
1/4-1/4/FOOTAGE: 815'N / 850'	(505) 632-1199 (FELD REPORT: (circle one): BST COMPRIATION: RELEASE INVESTIGATION / OTHER: PAGE #: 1 of 1 DATE INFORMATION: STEMME MANSFIELD #1A LIADURITE A SEC. 19 TAY: 30N RING: 9W PM: NM CNTY. S.J. T.NM 4-144/FOOTAGE 815N/ 850°E NE/NE EASE TYPE: FEDERAL STATE / FEE / INDIAN SEPTEMBER STORBITG PROD. FORMATION FT/MV CONTRACTOR: MBF - R. POWELL SECULISTO: WELL HEAD (WH.) GRS COORD: 36.80224 X 107.81517 GL ELEV: 6,131' 21 BGT (SW/DB) - B GRS COORD: 36.80202 X 107.81483 DETARCEBERMO FROM WE: GRS COORD: GRS				
LEASE #: SF078116	PROD. FORMATION: FT/MV CO	STRIKE NTRACTOR: MBF - R. POW	/ELL		NJV
REFERENCE POINT				GL ELEV.:	6.131'
1) 21 BGT (SW/DB) - B				4001	
2)	GPS COORD.:	· y	DISTANCE/BEAI	RING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OF	LAB USED: HALL			READING
			NALYSIS: 801	5B/8021B/300.0 (CI)	
4) SAMPLE ID: 5) SAMPLE ID:					
SOIL DESCRIPTION	' OOU TYPE TOWN OUT OUT OUT OUT	TOUT OUT OF A CORNEL OF	TUED		
COHESION (ALL OTHERS): NON COHESIVE SLIGHTL' CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY /SLIGHTLY MOIST / MOIST / W SAMPLE TYPE: GRAB /COMPOSITE + #	Y COHESIVE / COHESIVE / HIGHLY COHESIVE I COOSE FIRM DENSE / VERY DENSE ET / SATURATED FOR PTS. 5 1 1 1 1 1 1 1 1 1	DENSITY (COHESIVE CLAYS & SILTS HC ODOR DETECTED: YES NO EXPL	S): SOFT (FIRM): ANATION -	STIFF / VERY STIFF / HARD	
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:	LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANTED : YES NO EXPLANTED :				
EXCAVATION DIMENSION ESTIMATION:	NA ft. X NA	ft. X NA ft. EX	CAVATION EST	TIMATION (Cubic Yards) :	NA
DEPTH TO GROUNDWATER: >100' N	EAREST WATER SOURCE: >1,000'	NEAREST SURFACE WATER: <1	,000' NMOC	D TPH CLOSURE STD:1	,000 ppm
SITE SKETCH	BGT Located: off on site	PLOT PLAN circle:	attached 0\M	CALIB. READ. = NA	ppm pc =0.52
					111 -0.02
W.H.			N TIME	: NA am/pm DATE:	NA
				MISCELL NO	TES
	←	- COMPRESSOR	l w		7120
	FENCE				B2
	PROD.	(21)-B	P.		
	TANK TANK	PBGTL	Pe	ermit date(s): 06/	14/10
	BERM	B.G.	O		
			ID	ppm = parts per millio	n
	WOODEN R.W.		В		
			S.P.D.	BGT Sidewalls Visible: Y	
	ON DEPRESSION; B.G. = BELOW GRADE; B = BEL OW-GRADE TANK LOCATION; SPD = SAMPLE POI E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTO	NT DESIGNATION; R.W. = RETAINING WALL;	WELL HEAD; NA - NOT M	BGT Sidewalls Visible: Y lagnetic declination:	
NOTES: GOOGLE EARTH IMAG		ONSITE: 06/26/17			

Analytical Report

Lab Order 1706E08

Date Reported: 6/30/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 6' (21)-B

Project: MANSFIELD #1A

Collection Date: 6/26/2017 12:25:00 PM

Lab ID: 1706E08-002

Matrix: SOIL

Received Date: 6/27/2017 8:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SRM
Chloride	ND	30	mg/Kg	20	6/27/2017 12:10:59 PM	32511
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	6			Analyst	JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	6/27/2017 11:51:25 AM	32505
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/27/2017 11:51:25 AM	32505
Surr: DNOP	112	70-130	%Rec	1	6/27/2017 11:51:25 AM	32505
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	6/27/2017 11:41:27 AM	32494
Surr: BFB	92.5	54-150	%Rec	1	6/27/2017 11:41:27 AM	32494
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.018	mg/Kg	1	6/27/2017 11:41:27 AM	32494
Toluene	ND	0.036	mg/Kg	1	6/27/2017 11:41:27 AM	32494
Ethylbenzene	ND	0.036	mg/Kg	1	6/27/2017 11:41:27 AM	32494
Xylenes, Total	ND	0.073	mg/Kg	1	6/27/2017 11:41:27 AM	32494
Surr: 4-Bromofluorobenzene	121	66.6-132	%Rec	1	6/27/2017 11:41:27 AM	32494

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 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Ch	nain-c	of-Cus	stody Record	Tum-Around	Time:	SAME				ŀ	A	11	Ξ	NV	7 7 8	20	MI	ME	N.	TA	L	
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	☑ Rush _	DAY													AT			,
				Project Name				O-						viro								
Mailing A	ddress:	P.O. BO	X 87	N	MANSFIELD	# 1A		49	01 H	lawk	ins l	NE -	Alk	ouqu	erq	ue, l	MIN	3710	19			
		BLOOM	FIELD, NM 87413	Project #:				Te	d. 50	05-3	45-3	975	[ax !	505-	345	-410	7				
Phone #:		(505) 63	2-1199									Δ	nal	ysis	Red	ques	st					
email or F	ax#:			Project Mana	ger:	, , , , ,								(4)				300.1)				
QA/QC Pa	_		Level 4 (Full Validation)		NELSON V	ELEZ	(8021B)	s only)	/ MRO)			(S)		Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	PCB's			water - 300			Ð	
Accreditat	tion:			Sampler:	NELSON V	ELEZ ny	1 S	TPH (Gas	/ DRO	1)	1	SIN		102,	3082			-			ldm	
□ NELAF		□ Other		THE RESIDENCE OF THE PROPERTY)4 (is News	1	TH	1/0	418	504	8270	40	0,50	} / S		(A)	300.0			e sa	N
□ EDD (Гуре)	Т			enaure: 🗦 💆		4	BE +	(GR	por	por	or (etal	CI,N	cide	(A)	i-V	oil - 3		e e	osit	(70
D .	Time	B. d. a.b.viv.	Comple Desired ID	Container	Preservative		1	+ MTBE	8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	8 Metals	s (F,	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil -		Grab sample	composite sample	Air Bubbles (Y or N)
Date	Time	Matrix	Sample Request ID	Type and #	Туре	I HEALNO	BTEX -	BTEX -	TPH 80	DH () BC	AH (RCRA	nion	181	260E	270	lorie		rab :	5 pt. c	r Bu
11.1				medilat		Melalatos	80	œn.	F	-	回	Δ'	~	A	×	00	00	Ö		G	N.	A
9 6111	1212	SOIL	210-15-6 2 1201 V	7021-1	Cool	-001	V		V			-						V			•	-
11 1			****						_		-	_						_	\sqcup			
6/26/17	1225	SOIL	5PC - TB @ ('(21) - B	4 oz 1	Cool	762	٧		٧									٧	\square		٧	
																					-	
Date:	Time:	Relinquishe	ed by	Received by:	1	Date Time	Ren	narks	;								ACTV	VITH (CORRE	SPON	DING	VID
6/28/17	1428	196	hilf	1/ Emrist	to lalade	a letrela 1428	0	ONT	ACT:					VAN			N					
Date:	Time:	Relinquishe	ed by:	Received by:	1	Date Time				VHI												
124/17	1840	1/JM	is the pheles	V	/m/	LU0345	Ref	eren	ce#	_	р.	797	_									
	If necessary,	samples sub	mitted to Half Environmental may be su	bcontracted to other	accredited laboratorie	es. This serves as notice	of this	possit	oility.	Any su	b-con	tracte	d data	a will b	e clea	arly no	tated	on the	analy	tical re	eport.	

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706E08

30-Jun-17

Client: Project: Blagg Engineering MANSFIELD #1A

Sample ID MB-32511

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 32511

RunNo: 43824

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

HighLimit

Prep Date: 6/27/2017

Analysis Date: 6/27/2017

SeqNo: 1382188

%RPD

RPDLimit

Qual

Analyte Chloride

PQL Result ND 1.5

Sample ID LCS-32511

SampType: Ics

RunNo: 43824

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

LCSS 6/27/2017

Batch ID: 32511 Analysis Date: 6/27/2017

SeqNo: 1382189

90

Units: mg/Kg

%RPD

Qual

PQL

15.00

SPK value SPK Ref Val %REC

0

92.7

LowLimit

HighLimit

RPDLimit

Analyte Chloride

Result 14

1.5

110

Oualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

5.0

WO#:

1706E08

30-Jun-17

Client:

Blagg Engineering

Project:

Surr: DNOP

MANSFIELD #1A

Sample ID MB-32505	SampType: MBLK		TestC	ode: FPA Metho	d 8015M/D: Dies	sel Range	e Organics	
	, 2,							
Client ID: PBS	Batch ID: 32505	Batch ID: 32505 RunNo: 43810						
Prep Date: 6/27/2017	Analysis Date: 6/27/2	2017	Se	qNo: 1380557	Units: mg/Kg	3		
Analyte	Result PQL SF	K value SPI	K Ref Val	%REC LowLim	t HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10							
Motor Oil Range Organics (MRO)	ND 50							
Surr: DNOP	11	10.00		112 7	130			
Sample ID LCS-32505	SampType: LCS		TestC	ode: EPA Metho	d 8015M/D: Dies	sel Range	e Organics	
Client ID: LCSS	Batch ID: 32505		Rui	nNo: 43810				
Prep Date: 6/27/2017	Analysis Date: 6/27/2	2017	Sec	qNo: 1380558	Units: mg/Kg	1		
Analyte	Result PQL SF	K value SPI	K Ref Val	%REC LowLimi	t HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45 10	50.00	0	89.9 73.2	114			

100

70

130

5.000

Qualifiers:

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1

1706E08
30-Jun-17

Client:

Blagg Engineering

Project:

MANSFIELD #1A

Sample ID MB-32494 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: Batch ID: 32494 RunNo: 43822 Prep Date: Analysis Date: 6/27/2017 6/26/2017 SeqNo: 1381510 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 5.0 Gasoline Range Organics (GRO) ND Surr: BFB 940 1000 94.2 54 150

Sample ID LCS-32494	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 32494 RunNo: 43822									
Prep Date: 6/26/2017	Analysis D	ate: 6/	27/2017	S	SeqNo: 1	381511	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.2	76.4	125			
Surr: BFB	1100		1000		107	54	150			

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 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706E08

30-Jun-17

Client: Project: Blagg Engineering MANSFIELD #1A

Sample ID MB-32494	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	Batch ID: 32494			RunNo: 43822					
Prep Date: 6/26/2017	Analysis D	Date: 6/	27/2017	S	SeqNo: 1	381548	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		118	66.6	132			

Sample ID LCS-32494	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 32494			F	RunNo: 4					
Prep Date: 6/26/2017	Analysis D	27/2017	S	SeqNo: 1381549			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	112	80	120			
Toluene	1.1	0.050	1.000	0	112	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.5	0.10	3.000	0	115	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		131	66.6	132			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- 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

Reporting Detection Limit

- J Analyte detected below quantitation limits
- Sample pH Not In Range
- Sample container temperature is out of limit as specified

Page 6 of 6



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

EL: 303-343-39/3 FAX: 303-343-410/ Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	BLAGG		Work Order Number	: 1706E08		RcptNo:	1
Received By:	Anne Tho	me	6/27/2017 8:45:00 AM	l	am In	_	
Completed By:	Anne Tho	пе	6/27/2017 9:27:00 AM		Ame Sh.		
Reviewed By:	as.		6127 17		ama jin		
Chain of Cus	stody						
1. Custody sea	als intact on s	ample bottles?		Yes 🗌	No 🗆	Not Present ✓	
2. Is Chain of	Custody comp	lete?		Yes 🗸	No 🗌	Not Present	
3. How was th	e sample deli	vered?		Courier			
Log In							
	empt made to	cool the samples	s?	Yes 🗹	No 🗌	NA 🗆	
5. Were all sa	mples receive	d at a temperatur	re of >0° C to 6.0°C	Yes 🗸	No	NA 🗆	
6. Sample(s) i	in proper conta	ainer(s)?		Yes 🗹	No 🗔		
7. Sufficient sa	ample volume	for indicated test	(s)?	Yes 🗹	No 🗌		
8. Are samples	s (except VOA	and ONG) prope	erly preserved?	Yes 🗹	No 🗆		
9. Was presen	vative added t	o bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials h	ava vara bass	enece?		Yes 🗌	No 🗆	No VOA Vials ✓	
		ers received brol	can?	Yes	No 🗹	THO VOA VIRIS E	
11. Well ally s	ample contain	era received broi	NOTE:	163	110	# of preserved bottles checked	
12. Does paper	work match bo	ottle labels?		Yes 🗹	No 🗆	for pH:	
		ain of custody)			🗖	(<2 o	or >12 unless noted)
	_	ntified on Chain o	of Custody?	Yes 🗸	No 🗌	Aujusteur	
14. Is it clear what 15. Were all hold				Yes 🗹	No 🗆	Checked by:	
	•	authorization.)		les 🖭	NO 🗆		
Special Hand	lling (if app	olicable)					
16. Was client n	notified of all d	iscrepancies with	this order?	Yes 🗌	No 🗆	NA 🗹	_
Person	n Notified:		Date				
By Wh	nom:		Via:	eMail [Phone Fax	☐ In Person	
Regar	ding:						
Client	Instructions:						
17. Additional r	emarks:						
18. Cooler Info							
Cooler N	o Temp ℃			Seal Date	Signed By	1	
1	2.7	Good Ye	es		1	1	



