Sistrict, 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.

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.

# Proposed Alternative Method Permit or Closure Plan Application

Santa Fe, NM 87505

Type of action:  Below grade tank registration  Permit of a pit or proposed alternative method  Closure of a pit, below-grade tank, or proposed alternative method  Modification to an existing permit/or registration  Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method  Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: MOORE B 004
API Number: 3004560188 OCD Permit Number:
U/L or Qtr/Qtr H Section 05 Township 30N Range 08W County: San Juan
Center of Proposed Design: Latitude 36.843402 Longitude -107.692387 NAD83
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
☐ 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:       Thickness
■ Below-grade tank: Subsection I of 19.15.17.11 NMAC  TANK A
Volume: 95 bbl Type of fluid: Produced Water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other Single 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 for consideration of approval.
5.
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

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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	
8.	
Variances and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
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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 accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.  -   NM Office of the State Engineer - iWATERS database search;  USGS;  Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	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. ( <b>Does not apply to below grade tanks</b> )  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).	☐ Yes ☐ No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300 feet of any other fresh water well or spring, in existence at the time of the initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within, 100 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ 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 NM  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docu 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 19.15.17.11 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 19.15 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:  or Permit Number:	uments are
11.	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documentation design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Design 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 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: or Permit Number:	5.17.9 NMAC

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 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
14.  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. I 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	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	Yes No
16.	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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.         □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC         □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC         □ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC         □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         □ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believes	ef.
Name (Print):	
Traine (Time).	
Signature:	
Signature: Date: e-mail address: Telephone:	
e-mail address:	
e-mail address: Telephone:	
e-mail address:	
e-mail address: Telephone:	
e-mail address:	the closure report.
e-mail address:    Telephone:	the closure report.
e-mail address:    Telephone:	the closure report.

22/4.	
Operator Closure Certification:	
	tted 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:Utin garifalos	Date: December 19, 2017
e-mail address: erin.garifalos@bp.com	Telephone: (832) 609-7048

## BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### **BELOW-GRADE TANK CLOSURE PLAN**

#### **MOORE B 004**

API No. 3004560188

Unit Letter H Section 05 T 30N R 08W

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**

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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.

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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	< 0.020
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.080
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<47
Chlorides	US EPA Method 300.0 or 4500B	620	<30

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.

Soil under the BGT was sampled for chloride, TPH and BTEX with all concentrations below the stated limits. The field report and laboratory reports are attached.

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

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

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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 a 105 BBL shallow low profile above-grade tank set atop BGT location. 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 a 105 BBL shallow low profile above-grade tank set atop BGT location. 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 a 105 BBL shallow low profile above-grade tank set atop BGT location. 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 a 105 BBL shallow low profile above-grade tank set atop BGT location. 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 a 105 BBL shallow low profile above-grade tank set atop BGT location. 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.

<u>I</u>strict₄ 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> District II

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 April 3, 2017

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

			Rele	ease Notific	cation	n and Co	orrective A	ctio	n			
						OPERA'	ΓOR		Initi	al Report [	Final I	Report
	A	America Produc		ny		Contact Erin						
Facility Na		t, Farmington, N	M 87401				No. (832) 609-7048 be: Natural Gas We	II				
				1.0 1.0		7 71	e. Natural das VVe	"	Larra			
Surface Ow	ner: Federal			Mineral C	)wner:	Federal			API No	3004560188		
						N OF RE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		West Line	County	ييا م	00
Н	05	30N	08W	1,485	Nor	th	850	Eas	st	58	n Ju	an
			Latitud	e 36.843402	L	ongitude -1	07.692387	NAD	83			
						OF REL						
Type of Rele	ase:: none	)				Volume of	Release:: unkno			Recovered:: N//		
Source of Re	lease: belo	w grade ta	nk - 95 I	bbl		Date and H	Iour of Occurrence	e:	Date and n/a	Hour of Discov	ery:	
Was Immedi		Given?				If YES, To	Whom?		11/4			
			Yes ✓	No Not Re	equired							
By Whom? Was a Water	aayesa Daaa	had?				Date and H	lour olume Impacting t	the West				
was a water	course Reac		Yes 🗸	No		II YES, VO	nume impacting t	ine wat	ercourse.			
If a Watercon	ırse was Imi	pacted, Descri	ibe Fully.*									
Describe Cau	ise of Proble	em and Remed	dial Action	Samı Soil a	analys	sis resulte	beneath the d for Chloric Field reports	les, E	BTEX, ar	nd TPH belo	ow BGT	
Describe Are	a Affected of	and Cleanup A	otion Tak				loid roporto	ana	aborato	ry roound a	- attaol	
Describe Are	a Affected a	and Cleanup F	CCHOII TAK	No actio		essary. F on is requ	inal laborato ired.	ory a	nalysis (	determined	no	
regulations a public health should their or or the enviro	Il operators or the envir operations had not not in a	are required to ronment. The ave failed to a	report an acceptance dequately CD accept	d/or file certain re e of a C-141 repo investigate and re	elease not ort by the emediate	otifications are NMOCD m e contaminati	knowledge and und perform correctarked as "Final R on that pose a three the operator of the correction	etive act eport" of eat to g	tions for relations for relations for relations from the relationship in the relations	eases which may leve the operator, surface water,	endanger of liability human heal	,
	Iria a	aren n	,				OIL CON	SERV	ATION	DIVISION	5	
Signature:	iun g	vigalo	4									
Signature:	Erin G	arifalos				Approved by	Environmental S	pecialis	t:			
		onmenta		dinator		Approval Dat	e:		Expiration :	Date:		
E-mail Addre	ess: erin.	garifalos	@bp.	com		Conditions of	Approval:			Attached _		
Date: Decer				(832) 609-7048								

# bp



BP America Production Company 200 Energy Court Farmington, NM 87401

October 20, 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: MOORE B 004

API#: 3004560188

Dear Mrs. Thomas,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about October 24, 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 (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

Subject: Date: RE: BP Pit Close Notification - MOORE B 004 Friday, October 20, 2017 12:04:36 PM

**BP America Production Company** 

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

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

October 20, 2017

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

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

MOORE B 004 API 30-045-60188 (H) Section 5- T30N - R08W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around October 24, 2017.

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

ctient: BP	P.O. BOX 87, B	NGINEERING, IN		API#: 300456	_
	(50	05) 632-1199		(if applicble):	4
FIELD REPORT:	(circle one): BGT CONFIRMATION	/ RELEASE INVESTIGATION / C	OTHER:	PAGE #: <b>1</b>	of <b>1</b>
SITE INFORMATION	SITE NAME: MOORE	E B #4		DATE STARTED: 10	/24/17
QUAD/UNIT: H SEC: 5 TWP:	30N RNG: 8W PM:	: NM CNTY: SJ	ST: NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1,485'N / 850	O'E SE/NE LEASE	TYPE: FEDERAL STATE	/ FEE / INDIAN	ENVIRONMENTAL	
LEASE #: <b>SF078580A</b>	PROD. FORMATION: MV C	STRIKE CONTRACTOR: BP - J. GC	ONZALES		VJV
REFERENCE POINT		s coord.: <b>36.8431</b>		GL ELEV.:	6.271'
	GPS COORD.: 36.			RING FROM W.H.: 104',	-
2)				RING FROM W.H.:	
3)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # 0	OR LAB USED: HALL			OVM READING
	(95) SAMPLE DATE: 10/24			15B/8021B/300.0 (CI)	(ppm)
2) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
3) SAMPLE ID:					-
SAMPLE ID:      SAMPLE ID:	SAMPLE DATE:  SAMPLE DATE:	SAMPLE TIME:			
SOIL DESCRIPTION					
	S TO BROWNISH BLACK  Y COHESIVE CHESIVE (HIGHLY COHESIVE)  DOSE FIRM DENSE (VERY DENSE)  ET / SATURATED / SUPER SATURATED  # OF PTS.  5	PLASTICITY (CLAYS): NON PLASTIC DENSITY (COHESIVE CLAYS &	C/SLIGHTLY PLASTIC/CO SILTS): SOFT/FIRM/ EXPLANATION -	OHESIVE / MEDIUM PLASTIC / HIC STIFF / VERY STIFF / HARD	3HLY PLASTIC
		T. VECTAL EVEL ANATION -			
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: [ OTHER: NMOCD OR BLM REPS. NOT PR	ED AND/OR OCCURRED : YES NO EXPL YES NO EXPLANATION - 105 BB	PLANATION:	BOVE-GRADE TANK	TO BE SET ATOP 65 BGT L	OCATION.
EXCAVATION DIMENSION ESTIMATION:	: <u>NA</u> ft. X <u>NA</u>	ft. X <b>NA</b> ft.	EXCAVATION EST	ΠΜΑΤΙΟΝ (Cubic Yards) :	NA
DEPTH TO GROUNDWATER: >100' N	NEAREST WATER SOURCE: >1,000	NEAREST SURFACE WATER:	<1,000' NMOO	D TPH CLOSURE STD: 1,	,000 ppm
SITE SKETCH [	BGT Located : off on sit		A	CALIB. GAS = NA : NA am/pm DATE:	ppm RF=1.00
	TO XXXX	FENCE	R	MISCELL. NC /o: EF#: P-873	
COMPRESSOR		PROD.	P.	CD Appr. date(s): 09/	14/10 13/17
NAMES DOT DE ON ODADE TANK ED - EVON ATI	TO W.H.		K - S.P.D.	nk OVM = Organic Vapor N	/N / N
	.OW-GRADE TANK LOCATION; SPD = SAMPLE F E WALL; DW - DOUBLE WALL; SB - SINGLE BOT	POINT DESIGNATION; R.W. = RETAINING	WALL; NA - NOT <u>M</u>	lagnetic declination: 1	
NOTES: GOOGLE EARTH IMAGI	ERY DATE: 10/5/2016.	ONSITE: 10/24/	17		

#### **Analytical Report**

Lab Order 1710C94

Date Reported: 10/26/2017

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

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

Project: Moore B 4

Collection Date: 10/24/2017 11:15:00 AM

Lab ID: 1710C94-001

Matrix: MEOH (SOIL) Received Date: 10/25/2017 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	10/25/2017 10:04:10 A	M 34619
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	10/25/2017 1:51:49 PM	G46636
Surr: BFB	79.9	70-130	%Rec	1	10/25/2017 1:51:49 PM	G46636
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	3			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/25/2017 11:50:43 Al	M 34618
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2017 11:50:43 Al	M 34618
Surr: DNOP	78.7	70-130	%Rec	1	10/25/2017 11:50:43 Al	M 34618
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst	DJF
Benzene	ND	0.020	mg/Kg	1	10/25/2017 1:51:49 PM	34583
Toluene	ND	0.040	mg/Kg	1	10/25/2017 1:51:49 PM	34583
Ethylbenzene	ND	0.040	mg/Kg	1	10/25/2017 1:51:49 PM	34583
Xylenes, Total	ND	0.080	mg/Kg	1	10/25/2017 1:51:49 PM	34583
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	10/25/2017 1:51:49 PM	34583
Surr: 4-Bromofluorobenzene	88.6	70-130	%Rec	1	10/25/2017 1:51:49 PM	34583
Surr: Dibromofluoromethane	106	70-130	%Rec	1	10/25/2017 1:51:49 PM	34583
Surr: Toluene-d8	101	70-130	%Rec	1	10/25/2017 1:51:49 PM	34583

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
- Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

CI	hain-	of-Cus	stody Record	Turn-Around	Time:	SAME					AL		E	RIV	TE	20		ME	NT	CAI		₹
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	☑ Rush _	DAY			H										ATC			
				Project Name:										viro						•		
Mailing A	ddress:	P.O. BO	X 87	1	MOORE B	#4		49	01 F	lawk									9			
		BLOOM	FIELD, NM 87413	Project #:						05-34				Fax !	-							
Phone #:		(505) 63	32-1199									A	nal	ysis	Rec	lues	it					
email or F	ax#:			Project Manag	jer:									4				1)		$\Box$	$\Box$	Г
QA/QC Pad  Standa	_		Level 4 (Full Validation)		NELSON V	ELEZ	WB's (8021B)	oniy)	MRO)			lS)		04,50	PCB's			er - 300.1)			0	
Accreditat	ion:			Sampler:	NELSON V	ELEZ ny	)8) € <sub>1</sub>	(Gas	DRO /	1)	1)	SIN		02,1	/8082			wat			mpl	
□ NELAP		□ Other			V Yes	(EANO)	1	IPH	_	418.1)	504.	8270		03,N	8 / S		(A)	0.00			e sa	2
□ EDD (1	Гуре)			Sample Temp	erature:   4	<b>是这个人</b>	1	E+	(GRC	pol	pou	or §	etals	N,N	cide	(A)	i-VC	il - 3(		9	osit	(√ 01
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALING TO THE STATE OF THE STA	BTEX +-MTB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water		Grab sample	5 pt. composite sample	Air Bubbies (Y or N)
10/24/17	1115	SOIL	5PC-TB@ 5 '(95)	4 oz 1	Cool	-001	٧		٧									٧			٧	
																				一	$\neg$	_
																					$\neg$	
																				$\neg$	$\Box$	
																					$\neg$	
																				1		
																_				$\neg$		_
		1																		$\neg$	$\neg$	
																				$\neg$	$\neg$	_
																		П		$\dashv$		
Date: 10/24/17	Time:	Relinquish	ed by:	Received by:		Date Time 10/24/17 1617		ont			FEREN	ICE#	WHEN	APP	LICAE	BLE;		VITH C	CORRE	SPON	DING	VID
Date:	Time:	Relinquish	ed by: Dalle	Received by:	10/2	Date Time 5/17 <b>0800</b>			VID:	VHD		EVB2										
		ary, samples s	submitted to Hall Environmental may be s	ubcontracted to other	accredited laboratorie	es. This serves as notice of	f this p	ossibi	lity. A	ny sub	-contr	acted	data v	vIII be	clearly	notat	ed on	the an	alytical	repor	t.	_

#### Hall Environmental Analysis Laboratory, Inc.

WO#:

1710C94

26-Oct-17

Client:

Blagg Engineering

Project:

Moore B 4

Sample ID MB-34619

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

Batch ID: 34619

RunNo: 46627

Prep Date: 10/25/2017

Analysis Date: 10/25/2017

SeqNo: 1486632

Units: mg/Kg

HighLimit

SPK value SPK Ref Val %REC LowLimit

%RPD **RPDLimit**  Qual

Qual

Analyte Chloride

Chloride

Result PQL

ND

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 34619

SampType: Ics

RunNo: 46627

Prep Date: 10/25/2017

Sample ID LCS-34619

Analysis Date: 10/25/2017

SeqNo: 1486633

Units: mg/Kg

PQL SPK value SPK Ref Val

%REC

**RPDLimit** 

%RPD

HighLimit 1.5 15.00 96.0 90 110 14

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Η 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
- 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 2 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710C94

26-Oct-17

Client:

Blagg Engineering

Project:

Moore B 4

Sample ID LCS-34618	SampTy	/pe: LC	S	Test	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: LCSS	Batch ID: 34618 RunNo: 46629										
Prep Date: 10/25/2017	Analysis Da	ate: 10	)/25/2017	SeqNo: 1485341 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	49	10	50.00	0	97.5	73.2	114				
Surr: DNOP	4.0		5.000		79.6	70	130				

Sample ID MB-34618	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	ID: 34	618	R	RunNo: 4	6629				
Prep Date: 10/25/2017	Analysis Da	ate: 10	)/25/2017	S	SeqNo: 1	485342	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.5		10.00		74.6	70	130			

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

Page 3 of 5

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

#### Hall Environmental Analysis Laboratory, Inc.

WO#:

1710C94

26-Oct-17

Client:

Blagg Engineering

Project:

Moore B 4

Sample ID mb-34583	SampType: MBLK			TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batcl	n ID: 34	583	F	RunNo: 4	6636				
Prep Date: 10/24/2017	Analysis D	ate: 10	0/25/2017	S	SeqNo: 1	486152	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: 1,2-Dichloroethane-d4	0.50		0.5000		99.8	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.0	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

Sample ID Ics-34583	SampType: LCS TestCode			tCode: El	E EPA Method 8260B: Volatiles Short List						
Client ID: LCSS	Batch ID: 34583			RunNo: 46636							
Prep Date: 10/24/2017	Analysis Date: 10/25/2017			8	SeqNo: 1	486153	Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.96	0.025	1.000	0	95.9	70	130				
Toluene	0.96	0.050	1.000	0	95.8	70	130				
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		101	70	130				
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.5	70	130				
Surr: Dibromofluoromethane	0.46		0.5000		93.0	70	130				
Surr: Toluene-d8	0.51		0.5000		102	70	130				

#### Qualifiers:

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

Page 4 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710C94

26-Oct-17

Client:

Blagg Engineering

Project:

Moore B 4

Sample ID rb	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch	ID: G4	6636	R	unNo: 4	6636				
Prep Date:	Analysis D	ate: 10	0/25/2017	S	eqNo: 1	486155	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	<b>RPDLimit</b>	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	410		500.0		81.1	70	130			

Sample ID 2.5ug gro Ics	SampTy	pe: LC	S	Test	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Batch	ID: <b>G4</b>	6636	R	RunNo: 4	6636				
Prep Date:	Analysis Da	ite: 10	0/25/2017	S	SeqNo: 1	486156	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	<b>RPDLimit</b>	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	70	130			
Surr: BFB	410		500.0		82.7	70	130			

#### Qualifiers:

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

Page 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 Numb	er: 1710C94		RcptNo:	1
Received By: Sophia Campuza	ano 10/25/2017 8:00:00	AM	Sophia Corpora	-	
Completed By: Erin Melendrez Reviewed By:	10/25/2017 8:21:31 10/25/17	AM	MUL	-	
Chain of Custody					
1. Custody seals intact on sample	bottles?	Yes	No 🗔	Not Present	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?		Courier	-		
Log In					
4. Was an attempt made to cool th	e samples?	Yes 🗹	No 🗆	na 🗆	
5. Were all samples received at a t	temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)	)?	Yes 🔽	No 🗆		
7. Sufficient sample volume for ind	icated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and C	NG) properly preserved?	Yes 🗹	No 🗌		
9. Was preservative added to bottle	es?	Yes	No 🗹	NA 🗆	
10.VOA vials have zero headspace	?	Yes	No 🗆	No VOA Vials	
11. Were any sample containers red	ceived broken?	Yes	No 🗹	# of preserved	
40.5		v [4]	No 🗆	bottles checked	
<ol> <li>Does paperwork match bottle lat (Note discrepancies on chain of</li> </ol>		Yes 🗹	No 🗀	for pH: (<2 o	r >12 unless noted)
13. Are matrices correctly identified		Yes 🗸	No 🗆	Adjusted?	
14. Is it clear what analyses were re-		Yes 🗹	No 🗌		
15. Were all holding times able to be	met?	Yes 🗸	No 🗌	Checked by:	
(If no, notify customer for author	zation.)		L		
One of all the ordinary (16 and 11 and	101				
Special Handling (If applicat			$\Box$		
16. Was client notified of all discrepa	ancies with this order?	Yes 🗆	No 🗆	NA 🗹	1
Person Notified:	Date:			_	
By Whom:	Via:	eMail	Phone Fax	☐ In Person	
Regarding:				opposession of the state of the	
Client Instructions:					J
17. Additional remarks:					
18. <u>Cooler Information</u>   Cooler No   Temp °C   Core   1   1.2   Good	ndition   Seal Intact   Seal No     Yes	Seal Date	Signed By		



