District I 1,25 N. French Dr., Hobbs, NM 88240 District I 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Pit, Below-Grade Tank, or

Form C-144 Revised 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 |
|---|
| 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 |
| 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: W.D. HEATH A 005 |
| |
| API Number: 3004508217 OCD Permit Number: U/L or Qtr/Qtr P Section 17 Township 29N Range 09W County: San Juan |
| Center of Proposed Design: Latitude 36.72064 Longitude -107.79578 NAD83 |
| Surface Owner: Federal State Private Tribal Trust or Indian Allotment |
| and O.C.D. |
| Pite Subsection F. G. or I. of 19.15.17.11.NMAC |
| Temporary: Drilling Workover APR 2 3 2018 |
| |
| ☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management ☐ Low Chloride Drilling Fluid ☐ yes ☐ no ☐ Lined ☐ Unlined ☐ Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other |
| |
| String-Reinforced |
| Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D |
| 3. TANK O |
| ■ Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK C |
| Volume: 21bbl 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: Thickness mil HDPE PVC Other |
| |
| Alternative Method: |
| Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. |
| Submitted of all exception request is required. Exceptions must be submitted to the Santa Le 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 |
| ☐ Alternate. Please specify |

| Metting: 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 | |
| Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. | |
| 9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks. | ptable source |
| General siting | |
| Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells | Yes No |
| Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | Yes No |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yes ☐ No |
| Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | ☐ Yes ☐ No |
| Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | ☐ Yes ☐ No |
| Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map | ☐ Yes ☐ No |
| Below Grade Tanks | |
| Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter) | |
| Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. | ☐ 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. VS_Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
|---|------------------|
| Temporary Pit Non-low chloride drilling fluid | |
| Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No |
| Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Permanent Pit or Multi-Well Fluid Management Pit | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No |
| Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | Yes No |
| Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 No. Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doct attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.1 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: | NMAC 5.17.9 NMAC |
| Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doct attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.1 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number: | 15.17.9 NMAC |

| Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instruction's: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC | documents are |
|---|----------------------------|
| Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method | luid Management Pit |
| Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | |
| Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance. | |
| Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Ground water is between 25-50 feet below the bottom of the buried waste | ☐ Yes ☐ No ☐ NA ☐ Yes ☐ No |
| - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Ground water is more than 100 feet below the bottom of the buried waste. | □ NA □ Yes □ No |
| NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 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 | □ NA □ Yes □ No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | Yes No |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yes ☐ No |
| Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance | |

| adopted pursuant to NMSA 1978, Section 3-27-3, as amended. | |
|---|---------------------------|
| Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yes ☐ No |
| Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | ☐ Yes ☐ No |
| Within an unstable area. | |
| Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | ☐ Yes ☐ No |
| Within a 100-year floodplain FEMA map | Yes No |
| 16. | |
| On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannows Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | 11 NMAC 15.17.11 NMAC |
| Operator Application Certification: | |
| I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli | ief. |
| Name (Print): Title: | |
| Signature | |
| Signature: Date: | |
| e-mail address: Telephone: | |
| | |
| e-mail address: Telephone: | |
| e-mail address: Telephone: | |
| e-mail address: Telephone: | |
| e-mail address: Telephone: | 2018 the closure report. |
| e-mail address: Telephone: | 2018 the closure report. |
| e-mail address: Telephone: | the closure report. |

| | ted with this closure report is true, accurate and complete to the best of my knowledge and table closure requirements and conditions specified in the approved closure plan. |
|---------------------------------------|---|
| Name (Print): Erin Garifalos | Title: Field Environmental Coordinator |
| Signature:UTIN garifialos | Date: April 19, 2018 |
| 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

W.D. HEATH A 005

API No. 3004508217

Unit Letter P Section 17 T 29N R 09W

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

General Closure Plan

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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.

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 | < 0.016 |
| Total BTEX | US EPA Method SW-846 8021B or 8260B | 50 | < 0.063 |
| TPH | US EPA Method SW-846 418.1 or 8015 extended | 100 | <45 |
| Chlorides | US EPA Method 300.0 or 4500B | 620 | <30 |

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

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

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

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

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

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

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report. The location will be reclaimed when the well is plugged and abandoned.

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

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

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

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

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

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

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

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

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

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

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

BP did not meet the 60 closure completion requirement due to an error in internal tracking. Closure report on C-144 form is included including photos of reclamation completion.

16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

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

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

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

☐ Initial Report

Form C-141 Revised April 3, 2017

Final Report

Release Notification and Corrective Action

OPERATOR

| | | | | tion Compan | | | | | | | | | | | | |
|-------------------|---------------|----------------|-------------|------------------|--|----------------|--------------------|-----------|--------------|--------------------------|--|--|--|--|--|--|
| | | | | n, NM 8740 | | | | | | | | | | | | |
| Facility Nar | neW.D. I | HEATH A | 005 | | | Facility Typ | e: Natural Ga | as We | 11 | | | | | | | |
| Surface Ow | ner: Fede | eral | | Mineral (|)wner: | Federal | | | API No | .3004508217 | | | | | | |
| , | | | | LOC | ATIO | NOFPE | FASE | | | | | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | | | East/V | West Line | County | | | | | | |
| Р | 17 | 29N | 09W | | | | | | | San Juan | | | | | | |
| 1 | 1 / | 2014 | | | | | | Luc |) L | Jan Jan I | | | | | | |
| | | | Latitud | e 36.72064 | L | ongitude1 | 07.79578 | NAD | 83 | | | | | | | |
| | | | | NAT | URE | OF REL | EASE | | | | | | | | | |
| Type of Rele | | | | | | | | own | | | | | | | | |
| Source of Re | lease: belo | w grade ta | nk - 21 | obl | | | Hour of Occurrence | e: | | Hour of Discovery: | | | | | | |
| Was Immedia | | | | | | | Whom? | | 11/4 | | | | | | | |
| | | | Yes 🗸 | No Not R | equired | | | | | | | | | | | |
| By Whom? | | | | | | | | | | | | | | | | |
| Was a Water | course Reac | | Yes 🗸 | No | | If YES, Vo | olume Impacting t | the Wate | ercourse. | | | | | | | |
| | | | | | | | | | | | | | | | | |
| If a Watercou | irse was Im | pacted, Descr | ibe Fully.* | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Describe Cau | se of Proble | em and Reme | dial Action | Taken.* | | | | | | | | | | | | |
| 2001100 040 | 0111001 | | | Sam | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | closu | ire sta | andards. I | -ield reports | and I | aborato | ry results are attached. | | | | | | |
| Describe Are | a Affected a | and Cleanup A | Action Tak | en.* | n ne | passary F | inal laborate | orv ar | nalveie r | determined no | | | | | | |
| | | | | | | - | | ory ar | lary SIS C | determined no | | | | | | |
| | | | | Terricaia | aoth | orrio roqu | iroa. | | | | | | | | | |
| I hereby certi | fy that the i | nformation gi | ven above | is true and comr | lete to t | the best of my | knowledge and u | nderstar | nd that nurs | mant to NMOCD rules and | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | ws and/or regu | | | 1 | | | | | | | | | | | |
| | | 4×0/ 1 | | | | | OIL CONS | SERV | ATION | DIVISION | | | | | | |
| 1 | run g | wiffalc | 14 | | | | | | | | | | | | | |
| | | | | | | Approved by | Environmental Sp | pecialist | : () | | | | | | | |
| Printed Name | Erin G | arifalos | | | | | | | 1 | | | | | | | |
| | | onmenta | | dinator | | 5117015 | | | | | | | | | | |
| | | | | | Telephone No. (832) 609-7048 Facility Type: Natural Gas Well | | | | | | | | | | | |
| E-mail Addre | ss: erin. | garifalos | @bp. | com | | Conditions of | Approval: | | | Attached | | | | | | |
| Date: April | 19 2019 | | Dhana | (832) 600-70 | 148 | | | | | Attached _ | | | | | | |
| * Attach Addi | | | | (002) 003*/ | 740 | <u></u> | 17/01 | 210 | 2020 | 27 | | | | | | |
| - 2000011 1 10001 | | 11 110000 | J | | | 1/ | 101 AN | U. | 5550 | 33 | | | | | | |



380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

February 9, 2018

Bureau of Land Management Whitney Thomas 6251 College Suite A Farmington, NM 87402

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: WD HEATH A 005 API #: 3004508217

Dear Mrs. Thomas,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about February 15, 2018. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

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

Sincerely,

Erin Garifalos

BP America Production Company

From:

Buckley, Farrah (CH2M HILL)

To:

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

Cc:

jeffcblagg@aol.com; blagg_njv@yahoo.com; Garifalos, Erin

Subject: Date: BP Pit Close Notification - WD HEATH A 005 Friday, February 09, 2018 11:21:37 AM

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

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

February 9, 2018

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

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

W D HEATH A 005 API 30-045-08217 (P) Section 17 – T29N – R9W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to a 21bbl BGT and a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around February 15, 2018.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator - San Juan

Cell: 832-609-7048

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

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

| CLIENT: BP | P.O. BOX 87, B | NGINEERING, IN LOOMFIELD, NN 15) 632-1199 | | API #: 30045 | 08217 C |
|--|---|---|--|--|-------------------------------|
| FIELD REPORT: | (circle one): BGT CONFIRMATION | | THER: | PAGE#: 1 | of 1 |
| SITE INFORMATION QUAD/UNIT: P SEC: 17 TWP: 1/4 -1/4/FOOTAGE: 990'S / 990'I | 29N RNG: 9W PM: | NINE OIL | ST: NM | DATE STARTED: 02 DATE FINISHED: | 2/15/18 |
| LEASE #: SF076337 | PROD. FORMATION: PC CO | STRIKE ONTRACTOR: BP - J. GO | NZALES | SPECIALIST(S): | NJV |
| 1) 21 BGT (SW/DB) - C 2) 3) 4) - | GPS COORD.: 36 | 36.7205 3.72064 X 107.79578 | DISTANCE/BEA DISTANCE/BEA DISTANCE/BEA | RING FROM W.H.: 62', RING FROM W.H.: | N80E |
| SAMPLING DATA: 1) SAMPLE ID: 5PC - TB @ 6' (2) 2) SAMPLE ID: 3) SAMPLE ID: 4) SAMPLE ID: 5) SAMPLE ID: | SAMPLE DATE:SAMPLE DATE: | SAMPLE TIME: 0825 | LAB ANALYSIS: 80° LAB ANALYSIS: LAB ANALYSIS: LAB ANALYSIS: | | OVM READING (ppm) NA |
| SOIL DESCRIPTION SOIL COLOR: DARK YEL COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY/SLIGHTLY MOIST MOIST/W SAMPLE TYPE: GRAB (COMPOSITE) # DISCOLORATION/STAINING OBSERVED: YES IN | LOWISH ORANGE Y COHESIVE / COHESIVE / HIGHLY COHESIVE DOSE FIRM DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED OF PTS. 5 | PLASTICITY CLAY / CLAY / GRAVE PLASTICITY (CLAYS): NON PLASTIC DENSITY (COHESIVE CLAYS & HC ODOR DETECTED: YES NO ANY AREAS DISPLAYING WETNES | C/SLIGHTLY PLASTIC / C SILTS): SOFT / FIRM / EXPLANATION - | STIFF / VERY STIFF / HARD | |
| SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM REPS. NOT PR | D AND/OR OCCURRED : YES NO EXPL YES NO EXPLANATION - | ANATION: | | | |
| EXCAVATION DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: <50' N SITE SKETCH | (XX) | | >1,000' NMOO | MISCELL. NO VO: EF#: P-921 ID: VHIXONEVI | |
| W.H. NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION, BELOW-GRADE TANK, E.D. = EXCAVATION, BELOW-GRADE OR NOT AVAILABLE; SW-SINGLINOTES: GOOGLE EARTH IMAGION. | OW-GRADE TANK LOCATION; SPD = SAMPLE P E WALL; DW - DOUBLE WALL; SB - SINGLE BOT | ELOW; T.H. = TEST HOLE; ~= APPROX.; V OINT DESIGNATION; R.W. = RETAINING V | MALL; NA-NOT | CD Appr. date(s): 01 OVM = Organic Vapor ppm = parts per millio BGT Sidewalls Visible: Y BGT Sidewalls Visible: Y | /10/18 |

Analytical Report

Lab Order 1802926

Date Reported: 2/19/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

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

Project: W D HEATH A 5 Collection Date: 2/15/2018 8:25:00 AM

1802926-002 Lab ID:

Matrix: SOIL

Received Date: 2/16/2018 7:15:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|---------------------------------|------------|--------|----------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | CJS |
| Chloride | ND | 30 | mg/Kg | 20 | 2/16/2018 10:25:51 AM | 36564 |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS | | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | 19 | 9.1 | mg/Kg | 1 | 2/16/2018 10:08:00 AM | 36561 |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 2/16/2018 10:08:00 AM | 36561 |
| Surr: DNOP | 99.2 | 70-130 | %Rec | 1 | 2/16/2018 10:08:00 AM | 36561 |
| EPA METHOD 8015D: GASOLINE RAN | GE | | | | Analyst: | NSB |
| Gasoline Range Organics (GRO) | ND | 3.1 | mg/Kg | 1 | 2/16/2018 10:24:58 AM | 36546 |
| Surr: BFB | 86.0 | 15-316 | %Rec | 1 | 2/16/2018 10:24:58 AM | 36546 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: | NSB |
| Benzene | ND | 0.016 | mg/Kg | 1 | 2/16/2018 10:24:58 AM | 36546 |
| Toluene | ND | 0.031 | mg/Kg | 1 | 2/16/2018 10:24:58 AM | 36546 |
| Ethylbenzene | ND | 0.031 | mg/Kg | 1 | 2/16/2018 10:24:58 AM | 36546 |
| Xylenes, Total | ND | 0.063 | mg/Kg | 1 | 2/16/2018 10:24:58 AM | 36546 |
| Surr: 4-Bromofluorobenzene | 91.6 | 80-120 | %Rec | 1 | 2/16/2018 10:24:58 AM | 36546 |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

| C | hain-c | of-Cus | stody Record | Turn-Around 7 | ime: | SAME | | | | | AL | | E | BI'S | /TI | 20 | | ME | | rîa i | |
|------------|-------------|------------|--|-----------------------|----------------------------|--------------------------|-----------|-------------------|----------------------|--------------------|--------------------|------------------------|---------------|-------------------------------|------------------------|-------------|-----------------|--------------------------------|----------|-------------|------------------------|
| Client: | BLAG | G ENGR. | / BP AMERICA | ☐ Standard | ✓ Rush _ | DAY) | | | | | | | | | | | | R/ | | | |
| | | | | Project Name: | | | | | | | | | | | | ental | | | | , | . = |
| Mailing A | ddress: | P.O. BO | X 87 | w | D HEATH | A #5 | | 49 | 01 F | | | | | | | | | 37109 | 9 | | |
| | | BLOOM | FIELD, NM 87413 | Project #: | | | | | | 05-3 | | | | | | -345 | | | | | |
| Phone #: | - | (505) 63 | 32-1199 | 1 | | | | a | | | | | 1000 | | 1000 | ques | | | | | |
| email or F | ax#: | | | Project Manag | jer: | | | | | | | | | ~ | | | | T | | | \neg |
| QA/QC Pa | - | | Level 4 (Full Validation) | | ERIN GARI | FALOS | (8021B) | only) | MRO) | | | IS) | | 04,50 | PCB's | | | er - 300.1) | | İ | e l |
| Accreditat | tion: | | | Sampler: | NELSON VI | LEZ | 1 8 F | (Gas | RO / | 1) | 1) | SIN | | 102,1 | 3082 | | | / wat | | | mp |
| □ NELAP | | □ Other | | | El Yes | a No. ∴ Ny | # | TPH | 0/0 | 418 | 504 | 827 | S | 03,1 | ss/s | | (A) | 0.00 | | | te sa |
| | Type) | ī | | Sample Temp | erature I | | 1 | BE + | (GR | pou | pou |) or | etal | CLN | icid | 8 | -i- | oil - 3 | | ple | Soci |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL NO | BTEX +-NT | BTEX + MTBE + TPH | TPH 8015B (GRO / DRO | TPH (Method 418.1) | EDB (Method 504.1) | PAH (8310 or 8270SIMS) | RCRA 8 Metals | Anions (F,CI,NO3,NO2,PO4,SO4) | 8081 Pesticides / 8082 | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (soil - 300.0 / water | | Grab sample | 5 pt. composite sample |
| 2/15/18 | 0940 | SOIL | ERC TD @ (/ (21) A | 402, 1 | Gool | | 4 | | ¥ | _ | | | | | - | | - | J | | | 7 |
| | | | | | | .201 | - | | - | | | | | | | | | | \dashv | \dashv | |
| 2/15/18 | 0825 | SOIL | 5PC-ТВ @ 6' (21)-С | 4 oz 1 | Cool | 702 | ٧ | | ٧ | | | | | | | | | ٧ | | | ٧ |
| | | | | | | | | | | | | | | | | | | | | | \perp |
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| | | | | | | | | | | | | | | | | | | | | | |
| Date: | Time: | Relinquish | ed by: | Received by: | | Date Time | Ren | narks | : | | | | | | G THE PLICA | | TACT \ | WITH C | ORRE | SPON | DING |
| 2/15/18 | 1448 | 10 | my | 1 Mis-1 | Mes-Loth reto 2/15/18 1448 | | | | | ERIN | N GA | RIFA | LOS | | | HIXO | NC | | | | |
| Date: | 1034 | Relinquish | 10 st 10 co Lo | Received by: | Jan) | Date Time | Re | ferer | | VHD | | EVB2 921 | 2 | | | | | | | | |
| 1.3/10 | If necessor | normalos o | submitted to Hall Environmental may be a | ishaantmatad to ather | annotation laboratorie | This course on nation of | # thin = | annihi | it. A | nı aııh | anni | natad | data . | aill bo | alaarl | · noto | tad an | the on | nh dian | | l. |

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802926

19-Feb-18

Client:

Blagg Engineering

Project:

W D HEATH A 5

Sample ID MB-36564

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 36564

RunNo: 49182

Prep Date: 2/16/2018

Sample ID LCS-36564

Analysis Date: 2/16/2018 PQL

1.5

1.5

SeqNo: 1587449

Units: mg/Kg

HighLimit

%RPD **RPDLimit**

Qual

Analyte Chloride

Result ND

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 36564

RunNo: 49182

Analyte

Prep Date: 2/16/2018

Analysis Date: 2/16/2018

SeqNo: 1587450

Units: mg/Kg HighLimit

%RPD

RPDLimit Qual

Page 3 of 6

Result PQL

15.00

%REC 95.4

LowLimit

Chloride

14

0

SPK value SPK Ref Val

SPK value SPK Ref Val %REC LowLimit

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

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

Analyte detected below quantitation limits J

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1802926 *19-Feb-18*

Client: Project:

Blagg Engineering W D HEATH A 5

Sample ID LCS-36561 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 36561 RunNo: 49187 Prep Date: 2/16/2018 Analysis Date: 2/16/2018 SeqNo: 1586297 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 44 10 50.00 88.1 70 130 Surr: DNOP 4.2 5.000 84.3 70 130 Sample ID MB-36561 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 36561 RunNo: 49187 Prep Date: 2/16/2018 Analysis Date: 2/16/2018 SeqNo: 1586298 Units: mg/Kg %REC %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.8 10.00 98.5 70 130

Sample ID LCS-36549 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 36549 RunNo: 49187 Analysis Date: 2/16/2018 SeqNo: 1586500 Prep Date: 2/15/2018 Units: %Rec **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Sur: DNOP 4.7 5.000 93.4 70 130

Sample ID MB-36549 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 36549 RunNo: 49187 Prep Date: 2/15/2018 Analysis Date: 2/16/2018 SeqNo: 1586501 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 9.9 10.00 99.3 70 130

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 2/16/2018

PQL

Result

28

980

WO#:

1802926 19-Feb-18

Client:

Blagg Engineering

Project:

Prep Date: 2/15/2018

Gasoline Range Organics (GRO)

Analyte

Surr: BFB

W D HEATH A 5

| Sample ID MB-36546 | SampT | BLK | Tes | PA Method | 8015D: Gaso | line Rang | е | | | |
|-------------------------------|--|----------|-----------|-------------|-------------|-----------|-------------|-----------|----------|------|
| Client ID: PBS | Batch | h ID: 36 | 546 | F | lunNo: 4 | 9180 | | | | |
| Prep Date: 2/15/2018 | rep Date: 2/15/2018 Analysis Date: 2/16/2018 SeqNo: 1586854 Units: mg/Kg | | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 870 | | 1000 | | 87.0 | 15 | 316 | | | |
| Sample ID LCS-36546 | SampT | ype: LC | s | Tes | Code: El | PA Method | 8015D: Gaso | line Rang | e | |
| Client ID: LCSS | Batch | n ID: 36 | 546 | R | unNo: 4 | 9180 | | | | |

SPK value SPK Ref Val

25.00

1000

SeqNo: 1586855

LowLimit

15

%REC

111

98.3

Units: mg/Kg
HighLimit

316

%RPD

RPDLimit

Qual

| 0 | 1: | £; | ^ | MC |
|---|--------|----|---|----|

* 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 5 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

1802926

19-Feb-18

Qual

Qual

Client: Project:

Analyte

Blagg Engineering

Sample ID MB-36546

W D HEATH A 5

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

TestCode: EPA Method 8021B: Volatiles

Client ID: PBS

Batch ID: 36546

PQL

0.10

RunNo: 49180

Prep Date: 2/15/2018

Analysis Date: 2/16/2018

Result

ND

0.91

SeqNo: 1586876

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

%RPD

HighLimit

Benzene Toluene Ethylbenzene ND 0.025 0.050 ND ND 0.050

Xylenes, Total Surr: 4-Bromofluorobenzene

1.000

90.7

120

Sample ID LCS-36546 Client ID: LCSS

SampType: LCS Batch ID: 36546

RunNo: 49180

Pren Date: 2/15/2018

Analysis Date: 2/16/2018

| Prep Date: 2/15/2018 | Analysis D | ate: 2/ | 16/2018 | SeqNo: 1586877 | | | Units: mg/Kg | | | |
|----------------------------|------------|---------|-----------|-----------------------|------|----------|--------------|------|----------|--|
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | |
| Benzene | 1.1 | 0.025 | 1.000 | 0 | 107 | 77.3 | 128 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 106 | 79.2 | 125 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 103 | 80.7 | 127 | | | |
| Xylenes, Total | 3.2 | 0.10 | 3.000 | 0 | 107 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 1.000 | | 90.0 | 80 | 120 | | | |

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

Analyte detected in the associated Method Blank

Page 6 of 6



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

Website: www.hallenvironmental.com

Sample Log-In Check List

| Client Name: | BLAGG | | Work Order Nur | nber: 18 | 02926 | | | RcptN | o: 1 |
|---|---|---|---------------------------------------|--|--|-------------------------|------------------------|--|------|
| Received By: | Anne Thor | ne | 2/16/2018 7:15:00 |) AM | | anne | A. | _ | |
| Completed By: | Anne Thor | ne | 2/16/2018 7:17:32 | 2 AM | | Om. | 1 | | |
| Reviewed By: | RA 2 | - 16.18 | | | | Office | 7, | | |
| Chain of Cus | tody | | | | | | | | |
| 1. Is Chain of Cu | | ete? | | Ye | s 🗸 | No | | Not Present | |
| 2. How was the | sample delive | red? | | Co | urier | | | | |
| Log In | | | | | | | | | |
| 3. Was an attern | pt made to co | ool the samples? | | Ye | s V | No | | NA 🗆 | |
| 4. Were all samp | oles received a | at a temperature o | f >0° C to 6.0°C | Yes | s V | No | | NA 🗆 | |
| 5. Sample(s) in p | oroper contain | er(s)? | | Yes | V | No | | | |
| 6. Sufficient sam | ple volume for | r indicated test(s)? | , | Yes | ✓ | No | | | |
| 7. Are samples (| 7. Are samples (except VOA and ONG) properly preserved? | | | Yes | V | No | | | |
| 8. Was preservat | tive added to b | pottles? | | Yes | | No | \checkmark | NA 🗆 | |
| 9. VOA vials have | e zero headsp | pace? | | Yes | | No | | No VOA Vials | |
| 10. Were any sam | nple container | s received broken | ? | Yes | | No | V | # of preserved | |
| 44 - | | | | | | N - | $_{\Box}$ | bottles checked | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | | | Yes | Y | No | | for pH: | or >12 unless noted) | |
| 12. Are matrices correctly identified on Chain of Custody? | | | Yes | ✓ | No | | Adjusted? | | |
| 13. is it clear what | analyses wer | e requested? | | Yes | ✓ | No | | | |
| 14. Were all holding times able to be met? | | | Yes | V | No | | Checked by: | | |
| (If no, notify cu | | | | | | | | | |
| 15. Was client not | | | is order? | Yes | | No | | NA 🗹 | |
| | - Senta | Ministration and the property of the property | AARI (II MI I orbital bulecolo. 8" | - WASAN Medianahanan II | | MONTH SHOWS AND AND AND | NAME OF TAXABLE PARTY. | | |
| By Who | Notified: | AND A PROPERTY OF THE PARTY OF | Date Via: | 4 . | Mail F | Phone [| Env | In Person | |
| Regardi | 2000 | | VIII. | | ricii i | TIONE | I GA | _ III reisoii | |
| | structions: | | · · · · · · · · · · · · · · · · · · · | AND DESCRIPTION OF THE PARTY OF | ************************************** | THE REAL PROPERTY. | T. SECRETARISMENT | Management and the second and the se | |
| 16. Additional ren | marks: | | | | | | | | |
| 17. Cooler Information Cooler No | Temp °C | Condition Sea | l Intact Seal No | Seal | Date | Signed E | Ву | | |



