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

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

OIL CONS. DIV DIST. 3

SEP 15 2017

Form C-144 Revised June 6, 2013

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

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

| Proposed Alternative Method Permit or Closure Plan Application |
|--|
| Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method |
| Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request |
| Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. |
| Operator: BP America Production Company OGRID #: 778 |
| Address: 200 Energy Court, Farmington, NM 87401 |
| Facility or well name: Gallegos Canyon Unit 190 |
| API Number:OCD Permit Number: |
| U/L or Qtr/Qtr C Section 32 Township 28N Range 12W County: San Juan |
| Center of Proposed Design: Latitude 36.62236 Longitude -108.13847 NAD: □ 1927 □ 1983 |
| 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 mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D |
| 3. ⊠ Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A 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 |
| 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. |

| 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, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify | hospital, |
|--|---------------|
| Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other | ٠ |
| 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 | Yes No |
|---|-------------------|
| application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | |
| Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Temporary Pit Non-low chloride drilling fluid | |
| Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Yes No |
| Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Permanent Pit or Multi-Well Fluid Management Pit | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No |
| Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of | |
| initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC | NMAC 15.17.9 NMAC |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: | |
| Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC | |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: | |

| Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the | documents are |
|---|---------------------|
| 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 |
| 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 | attached to the |
| 15. | |
| Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance. | |
| Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ☐ No ☐ NA |
| Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ☐ No ☐ NA |
| Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ☐ No ☐ NA |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | ☐ Yes ☐ No |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yes ☐ No |
| Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance | Yes No |

| adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality | ☐ Yes ☐ No |
|--|---------------------------|
| Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | ☐ Yes ☐ No |
| Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | |
| 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 19.15.17.13 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 canr 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 bel | ief. |
| Name (Print): | |
| Signature: Date: | |
| e-mail address: Telephone: | |
| 18. OCD Approval: Permit Application (including clasure plan) Closure Plan (only) COD Conditions (see attachment) | |
| OCD Representative Signature: Approval Date: 913 | 13017 |
| Title: <u>Environnantal</u> <u>Specalist</u> OCD Permit Number: | |
| 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 6/15/2017 | |
| Closure Completion Date. 6/15/2011 | |
| 20. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-log If different from approved plan, please explain. | oop systems only) |

| 22. | |
|---------------------------------------|---|
| Operator Closure Certification: | |
| | ed with this closure report is true, accurate and complete to the best of my knowledge and able closure requirements and conditions specified in the approved closure plan. |
| Name (Print): Erin Garifalos | Title: Field Environmental Coordinator |
| Signature: Utin gwihalos | Date: September 11, 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

Gallegos Canyon Unit #190 API No. 3004507057 Unit Letter C, Section 32, T28N, R12W

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

General Closure Plan

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

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

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

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

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

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

The BGT was transported for recycling.

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

All equipment associated with the BGT has been removed.

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

| Constituents | Testing Method | Release Verification | Sample |
|--------------|---|----------------------|---------|
| | 95 bbl BGT | (mg/Kg) | results |
| Benzene | US EPA Method SW-846 8021B or 8260B | 10 | < 0.017 |
| Total BTEX | US EPA Method SW-846 8021B or 8260B | 50 | < 0.069 |
| TPH | US EPA Method SW-846 418.1 or 8015 extended | 100 | <49 |
| Chlorides | US EPA Method 300.0 or 4500B | 620 | <30 |

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

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

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

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

 Sampling results indicate a release has not occurred. Attached is a laboratory report and C-141.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

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

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

The area has been backfilled. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled. The location will be reclaimed once the well is plugged and abandoned.

- 14. Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BP shall notify the NMOCD when it has seeded or planted and when it successfully achieves revegetation.
 - The area has been backfilled. The location will be reclaimed once the well is plugged and abandoned.
- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following:
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation.

 BP did not meet the 60 closure completion requirement due to an error in internal tracking. Closure report on C-144 form is included including photos of reclamation completion.
- 16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

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

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141

Revised August 8, 2011

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

| Release Notificati | on and Corrective Action | on . | | | | | | | | |
|--|---|---|--|--|--|--|--|--|--|--|
| | OPERATOR | ☐ Initial Report ☐ Final Report | | | | | | | | |
| Name of Company: BP | Contact: Erin Garifalos | | | | | | | | | |
| Address: 200 Energy Court, Farmington, NM 87401 | Telephone No.: 832-609-7048 | | | | | | | | | |
| Facility Name: Gallegos Canyon Unit 190 | Facility Type: Natural gas well | | | | | | | | | |
| Surface Owner: Fee Mineral Owne | r: Fee | API No. 3004507057 | | | | | | | | |
| LOCATIO | ON OF RELEASE | | | | | | | | | |
| | th/South Line Feet from the Eas | t/West Line County: San Juan | | | | | | | | |
| Latitude 36.62236 | Longitude108.13847° E OF RELEASE | | | | | | | | | |
| Type of Release: none | Volume of Release: unknown | Volume Recovered: N/A | | | | | | | | |
| Source of Release: below grade tank – 95 bbl | Date and Hour of Occurrence: | Date and Hour of Discovery: none | | | | | | | | |
| Was Immediate Notice Given? ☐ Yes ☑ No ☐ Not Require | If YES, To Whom? | | | | | | | | | |
| By Whom? | Date and Hour | | | | | | | | | |
| Was a Watercourse Reached? ☐ Yes ☑ No | If YES, Volume Impacting the W | atercourse. | | | | | | | | |
| If a Watercourse was Impacted, Describe Fully.* | | | | | | | | | | |
| Describe Cause of Problem and Remedial Action Taken.* Sampling of Chlorides, BTEX, and TPH below BGT closure standards. Field report | | ring removal. Soil analysis resulted for | | | | | | | | |
| Describe Area Affected and Cleanup Action Taken.* No action necessar | ary. Final laboratory analysis determin | ed no remedial action is required. | | | | | | | | |
| I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. | e notifications and perform corrective a the NMOCD marked as "Final Report iate contamination that pose a threat to | ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health | | | | | | | | |
| | OIL CONSER | VATION DIVISION | | | | | | | | |
| Signature: Utin garifalos | | | | | | | | | | |
| Printed Name: Erin Garifalos | Approved by Environmental Special | list: | | | | | | | | |
| Title: Field Environmental Coordinator | Approval Date: | Expiration Date: | | | | | | | | |
| E-mail Address: erin.garifalos@bp.com | Conditions of Approval: | Attached | | | | | | | | |
| Date: September 11, 2017 Phone: 832-609-7048 | | | | | | | | | | |

^{*} Attach Additional Sheets If Necessary

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

June 9, 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: GALLEGOS CANYON UNIT 190

API #: 3004507057

Dear Mrs. Thomas,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about June 14, 2017. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

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

Sincerely,

Steven Moskal

BP America Production Company

Garifalos, Erin

From: Buckley, Farrah (CH2M HILL)
Sent: Friday, June 09, 2017 6:54 AM

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

Cc:'jeffcblagg@aol.com'; 'blagg_njv@yahoo.com'; Moskal, StevenSubject:BP Pit Close Notification - GALLEGOS CANYON UNIT 190

BP America Production Company

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

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

June 9, 2017

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

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

GALLEGOS CANYON UNIT 190 API 30-045-07057 (C) Section 32 – T28N – R12W 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 June 14, 2017.

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

Sincerely,

Steven Moskal BP Field Environmental Coordinator

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, INC. BLOOMFIELD, NM 8 05) 632-1199 | 7413 | API #: 300450 TANK ID (if applicble): | 7057 A |
|---|---|---|----------------|---|--|
| FIELD REPORT: | · · · · · · · · · · · · · · · · · · · | / RELEASE INVESTIGATION / OTHER | R: | PAGE #: 1 | _ |
| SITE INFORMATION | I: SITE NAME: GCU # | 190 | | DATE STARTED: 06 | /13/17 |
| QUAD/UNIT: C SEC: 32 TWP: | 4011 | | ST: NM | DATE FINISHED: | |
| 1/4 -1/4/FOOTAGE: 1,190'N / 1,6 | | TYPE: FEDERAL STATE / FEE STRIKE ONTRACTOR: MBF - R. POM | | ENVIRONMENTAL SPECIALIST(S): | VJV |
| REFERENCE POINT | | S COORD.: 36.62277 X | | | |
| 1) 95 BGT (DW/DB) | | 36.622.77 X | | GL ELEV.:RING FROM W.H.:157' | |
| | | .022.00 X 100.10047 | | RING FROM W.H.: | |
| 3) | | | | RING FROM W.H.: | |
| 4) | GPS COORD.: | | | RING FROM W.H.: | |
| SAMPLING DATA: | CHAIN OF CUSTODY RECORD(S) # 0 | | | | OVM READING |
| 1) SAMPLE ID: 5PC - TB @ 5 | 1 | | NAI VSIS: 801 | 5B/8021B/300.0 (CI) | (ppm) |
| 2) SAMPLE ID: | | | NALYSIS: | | |
| 3) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: LAB AI | NALYSIS: | | |
| 4) SAMPLE ID: | | | NALYSIS: | | - |
| SOIL DESCRIPTION | | SAMPLE TIME: LAB A | | | |
| SOIL COLOR: DARK YEI COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY / SLIGHTLY MOIST / MOIST / W SAMPLE TYPE: GRAB / COMPOSITE + 4 DISCOLORATION/STAINING OBSERVED: YES | DOSE FIRM DENSE / VERY DENSE DENSE VERY DENSE DENSE | PLASTICITY (CLAYS): NON PLASTIC / SLIC DENSITY (COHESIVE CLAYS & SILTS HC ODOR DETECTED: YES NO EXPL ANY AREAS DISPLAYING WETNESS: Y | S): SOFT/FIRM/ | STIFF / VERY STIFF / HARD | GHLY PLASTIC |
| SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM NOT PRESEN | LOST INTEGRITY OF EQUIPMENT ED AND/OR OCCURRED: YES NO EXPL YES NO EXPLANATION - | LANATION: | | | |
| EXCAVATION DIMENSION ESTIMATION: | 101 | | | TIMATION (Cubic Yards) : | NA |
| | IEAREST WATER SOURCE: >1,000 | | 1,000' NMOC | D TPH CLOSURE STD: | 100 ppm |
| SITE SKETCH | BGT Located: off on sit | ^ | N TIME | CALIB. GAS = NA : NA am/pm DATE: | ppm RF=0.52 Ppm NA |
| PROD. TANK | | | S.P.D. | CD Appr. date(s): 05/lik OVM = Organic Vapor I ppm = parts per millior BGT Sidewalls Visible: Y | 14/10 09/17 Veter /(N) / N |
| NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION PROTI = PREVIOUS REL | | ELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = POINT DESIGNATION; R.W. = RETAINING WALL; | | BGT Sidewalls Visible: Y | - 1000 |
| | OW-GRADE TANK LOCATION; SPD = SAMPLE F E WALL; DW - DOUBLE WALL; SB - SINGLE BOT | | , IVA - IVOI | lagnetic declination: 1 | UE |
| NOTES: GOOGLE EARTH IMAG | ERY DATE: 3/15/2015. | ONSITE: 06/13/17 | | | |

Analytical Report

Lab Order 1706730

Date Reported: 6/15/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

1706730-001

Project: GCU #190

Lab ID:

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

Collection Date: 6/13/2017 2:03:00 PM

Received Date: 6/14/2017 7:50:00 AM

| Analyses | Result | PQL Qu | al Units | DF | Date Analyzed | Batch |
|---------------------------------|-------------|----------|----------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | LGT |
| Chloride | ND | 30 | mg/Kg | 20 | 6/14/2017 11:17:54 AM | 32282 |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS | 3 | | | Analyst | TOM |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 6/14/2017 10:07:11 AM | 32271 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 6/14/2017 10:07:11 AM | 32271 |
| Surr: DNOP | 102 | 70-130 | %Rec | 1 | 6/14/2017 10:07:11 AM | 32271 |
| EPA METHOD 8015D: GASOLINE RAN | IGE | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 3.4 | mg/Kg | 1 | 6/14/2017 12:59:40 PM | 32257 |
| Surr: BFB | 92.7 | 54-150 | %Rec | 1 | 6/14/2017 12:59:40 PM | 32257 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB |
| Benzene | ND | 0.017 | mg/Kg | 1 | 6/14/2017 12:59:40 PM | 32257 |
| Toluene | ND | 0.034 | mg/Kg | 1 | 6/14/2017 12:59:40 PM | 32257 |
| Ethylbenzene | ND | 0.034 | mg/Kg | 1 | 6/14/2017 12:59:40 PM | 32257 |
| Xylenes, Total | ND | 0.069 | mg/Kg | 1 | 6/14/2017 12:59:40 PM | 32257 |
| Surr: 4-Bromofluorobenzene | 120 | 66.6-132 | %Rec | 1 | 6/14/2017 12:59:40 PM | 32257 |

Matrix: SOIL

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

| CI | nain-c | f-Cus | stody Record | Turn-Around | Time: | SAME | | | | HA | | F | NV | /TE | 20 | NE | ME | NIT | A | | - 1 |
|---------------|---------------|-------------|--|------------------------|------------------------|------------------------------------|----------------|------------------------------|----------------------|--|-----------|---------------|---|------------------------------|-------------|-----------------|----------------|----------|-------------|------------------------|----------------------|
| Client: | BLAG | G ENGR. | / BP AMERICA | ☐ Standard | ☑ Rush _ | DAY | | 1005 | _ | AN | | | | | | | | | | | |
| | | | | Project Name | | | | | | | w.ha | | | | | | | ••• | | • | |
| Mailing A | ddress: | P.O. BO | X 87 | 1 | GCU # 19 | 90 | | 490 | 1 Ha | wkins | | | | | | | | 9 | | | |
| | | BLOOM | FIELD, NM 87413 | Project #: | | | | | (9) | -345- | | | | | | -410 | | | | | |
| Phone #: | | (505) 63 | 2-1199 | 1 | | | Sa. | | 1.01 | | Д | anal | ysis | Re | ques | st | | | H | | |
| email or I | ax#: | | | Project Manag | ger: | | | | | T | | | 4 | | | | (1) | | Т | | |
| QA/QC Pa | | | Level 4 (Full Validation) | | NELSON V | ELEZ | (8021B) | s only) | / MRO) | | (S) | | 05,50 | PCB's | | | water - 300.1) | | | 0 | |
| Accredita | tion: | | | Sampler: | NELSON V | ELEZ ny | ₩1 8 (8 | | | 귀유 | 8270SIMS) | | 102 | 3082 | | | | | | mp | |
| □ NELAF | • | □ Other | | On Ice. | XYes | (Ef No y let 2 | 1 | TH | 3 | 504. | 8270 | | 03,1 | 8/8 | | (A) | 300.0 | | | e sa | N J |
| □ EDD (| Гуре) | | | Sample Temp | elature | | 4 | BE + | GR. | 00 | or 8 | etal | CI,N | cide | (A) |)i-V | 1 | | ole Ole | osit | (Y o |
| Date | Time | Matrix | Sample Request ID | Type and # | Preservative Type | HEALING. | BTEX +-MTB | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO | IPH (Method 418.1) EDB (Method 504.1) | PAH (8310 | RCRA 8 Metals | Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (soil | | Grab sample | 5 pt. composite sample | Air Bubbles (Y or N) |
| 6/13/17 | 1403 | SOIL | 5PC - TB @ 5 '(95) | 4 oz 1 | Cool | 701 | ٧ | | V | | | | | | | | ٧ | | | V | |
| | | | | | | | | | | | | | | | | | | | 1 | 7 | |
| | | | | | | | | | \top | \top | П | | | | | | | \neg | | | |
| | | | | | | | | \neg | \top | \top | \Box | | | | | | | | \forall | \forall | |
| | | | | | | | | \top | \top | + | | | | | | | | \dashv | \dashv | 7 | |
| | | | | | | | Н | + | + | +- | | | | | | | | _ | + | \forall | |
| | | | | | | | | + | + | + | \vdash | | | | | | | \dashv | + | + | _ |
| | | | | | | | | + | + | + | | _ | | | | | $\overline{}$ | \dashv | + | 1 | |
| | | | | | | | | + | + | + | | | | | | \vdash | \vdash | + | + | \dashv | |
| | | | | | | | Н | + | + | + | \vdash | _ | | | | | | + | + | \dashv | |
| | | | | | | | Н | \dashv | + | + | | | | | | | | - | + | - | - |
| | | | | | | | | + | + | + | | | | | | | Н | \dashv | + | \dashv | |
| Date: 6/13/17 | Time: 1605 | Relinquishe | mUZ | Received by: | Jubel | Date Time | | | CT: S | REFERE | NCE#1 | WHEN | N APP | LICAE | BLE; | | VITH C | ORRES | POND | DING | VID |
| Date: 4/13/10 | Time: [844 | Relinquishe | t Walk | Received by: | hu I | Date Time 1 Un/; 4//7 - 6757 | Refe | renc | | HIXOI P - | 851 | - | | | | | | | | | |
| | If necessary, | samples sub | mitted to Hall Environmental may be su | bcontracted to other a | accredited laboratorie | es. This serves as notice of | of this p | ossibil | ity. An | y sub-co | ntracte | d data | a will b | e clea | arly no | tated o | on the | analyti | cal rep | oort. | |

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706730

15-Jun-17

Client:

Blagg Engineering

Project:

GCU #190

Sample ID MB-32282

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 32282

RunNo: 43485

Prep Date:

6/14/2017

Analysis Date: 6/14/2017

Analyte

SPK value SPK Ref Val %REC LowLimit

PQL

SeqNo: 1370344

Units: mg/Kg

HighLimit

%RPD **RPDLimit** Qual

Chloride

ND 1.5

Result

Sample ID LCS-32282

SampType: Ics

TestCode: EPA Method 300.0: Anions RunNo: 43485

Client ID: LCSS Batch ID: 32282

Units: mg/Kg

Prep Date:

6/14/2017

Analysis Date: 6/14/2017

PQL

1.5

SeqNo: 1370345

RPDLimit

LowLimit

HighLimit 110

Analyte

Result 14 SPK value SPK Ref Val %REC 15.00

90

%RPD

Chloride

91.8

Qual

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

RPD outside accepted recovery limits R

% 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

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706730

15-Jun-17

Client:

Blagg Engineering

Project:

Surr: DNOP

GCII #190

| Project: GCU#1 | 90 | | | | | | | | | |
|--------------------------------|-------------|---------|-----------|-------------|--------------|-----------|-------------|-----------|------------|------|
| Sample ID LCS-32271 | SampT | pe: LC | S | Tes | tCode: El | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: LCSS | Batch | ID: 32 | 271 | F | RunNo: 43444 | | | | | |
| Prep Date: 6/14/2017 | Analysis D | ate: 6/ | 14/2017 | S | SeqNo: 1 | 369340 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 53 | 10 | 50.00 | 0 | 105 | 73.2 | 114 | | | |
| Surr: DNOP | 4.8 | | 5.000 | _ | 96.7 | 70 | 130 | | | |
| Sample ID MB-32271 | SampT | /ре: МЕ | BLK | Tes | tCode: El | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: PBS | Batch | ID: 32 | 271 | F | RunNo: 4 | 3444 | | | | |
| Prep Date: 6/14/2017 | Analysis Da | ate: 6/ | 14/2017 | 5 | SeqNo: 1 | 369341 | 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 | | | | | | | | |

91.7

70

130

10.00

Qualifiers:

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

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1706730

15-Jun-17

Client:

Blagg Engineering

| Project: GCU# | 190 | | | | | | | |
|-------------------------------|---|-----------------------------|----------------|---------------|--|--|--|--|
| Sample ID MB-32257 | SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: PBS | Batch ID: 32257 | atch ID: 32257 RunNo: 43490 | | | | | | |
| Prep Date: 6/13/2017 | Analysis Date: 6/14/2017 | SeqNo: 1370009 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | e SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual | | | | |
| Gasoline Range Organics (GRO) | ND 5.0 | | | | | | | |
| Surr: BFB | 960 100 | 95.9 54 | 150 | | | | | |
| Sample ID LCS-32257 | ample ID LCS-32257 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: LCSS | Batch ID: 32257 RunNo: 43490 | | | | | | | |
| Prep Date: 6/13/2017 | Analysis Date: 6/14/2017 | SeqNo: 1370010 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | e SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual | | | | |
| Gasoline Range Organics (GRO) | 25 5.0 25.0 | 0 100 76.4 | 125 | | | | | |
| Surr: BFB | 1000 100 | 103 54 | 150 | | | | | |
| Sample ID MB-32244 | SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: PBS | Batch ID: 32244 | RunNo: 43491 | | | | | | |
| Prep Date: 6/13/2017 | Analysis Date: 6/14/2017 | SeqNo: 1370036 | Units: %Rec | | | | | |
| Analyte | Result PQL SPK value | e SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual | | | | |
| Surr: BFB | 1100 100 | 110 54 | 150 | | | | | |
| Sample ID LCS-32244 | SampType: LCS TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: LCSS | Batch ID: 32244 | RunNo: 43491 | | | | | | |
| Prep Date: 6/13/2017 | Analysis Date: 6/14/2017 | SeqNo: 1370037 | Units: %Rec | | | | | |
| Analyte | Result PQL SPK value | e SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual | | | | |
| Surr: BFB | 1200 100 | 119 54 | 150 | | | | | |

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

% 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 4 of 5

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1706730

15-Jun-17

Client:

Blagg Engineering

GCU #190

| Project: GCU # | [‡] 190 | | | | | | | | |
|----------------------------|---|--|----------------|---------------------------------------|-------------------------------------|-------------|------|----------|------|
| Sample ID MB-32257 | SampType: M | BLK | Tes | TestCode: EPA Method 8021B: Volatiles | | | | | |
| Client ID: PBS | Batch ID: 32 | F | RunNo: 43490 | | | | | | |
| Prep Date: 6/13/2017 | Analysis Date: 6 | /14/2017 | 8 | SeqNo: 13 | 370018 | Units: mg/K | (g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND 0.025 | | | | | | | | |
| Toluene | ND 0.050 | | | | | | | | |
| Ethylbenzene | ND 0.050 | | | | | | | | |
| Xylenes, Total | ND 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | 1.000 | | 123 | 66.6 | 132 | | | |
| Sample ID LCS-32257 | SampType: Lo | SampType: LCS TestCode: EPA Method 8021B: Vo | | | | | iles | | |
| Client ID: LCSS | Batch ID: 32 | F | RunNo: 43490 | | | | | | |
| Prep Date: 6/13/2017 | Analysis Date: 6 | /14/2017 | SeqNo: 1370019 | | | Units: mg/K | g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.0 0.025 | 1.000 | 0 | 105 | 80 | 120 | | | |
| Toluene | 1.1 0.050 | 1.000 | 0 | 106 | 80 | 120 | | | |
| Ethylbenzene | 1.1 0.050 | 1.000 | 0 | 106 | 80 | 120 | | | |
| Xylenes, Total | 3.2 0.10 | 3.000 | 0 | 108 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.2 | 1.000 | | 125 | 66.6 | 132 | | | |
| Sample ID MB-32244 | SampType: M | SampType: MBLK Te | | | stCode: EPA Method 8021B: Volatiles | | | | |
| Client ID: PBS | Batch ID: 32 | RunNo: 43491 | | | | | | | |
| Prep Date: 6/13/2017 | Analysis Date: 6 | /14/2017 | SeqNo: 1370062 | | | Units: %Rec | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | 1.000 | | 108 | 66.6 | 132 | | | |
| Sample ID LCS-32244 | SampType: LCS TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
| Client ID: LCSS | Batch ID: 32 | RunNo: 43491 | | | | | | | |
| Prep Date: 6/13/2017 | Analysis Date: 6 | /14/2017 | SeqNo: 1370063 | | Units: %Rec | | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | 1.000 | | 111 | 66.6 | 132 | | | |

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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 5

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Albuquerque, NM 87109 Sample Log-In Check List

| Client Name: | BLAGG | | Work Order N | lumber: 1 | 706730 | | | RcptN | o: 1 |
|--|---|--|----------------------|---------------------------------------|--------------------------|----------|--------------|----------------------------|----------------------|
| Received By: | Anne Tho | rne | 6/14/2017 7:50 | MA 00: | | ann | A- | _ | |
| Completed By: | Anne Tho | me | 6/14/2017 8:26 | 47 AM | | am. | 1 | | |
| Reviewed By: | Ne | _ | 6/14/17 | | | Game, | ,,,,, | | |
| Chain of Cus | tody | | | | | | | | |
| 1. Custody sea | als intact on s | ample bottles? | | , | Yes 🗌 | No | | Not Present | 9 |
| 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 the samples? | | | | | Yes 🗹 | No | | NA [|] |
| 5. Were all samples received at a temperature of >0° C to 6.0°C | | | | C Y | ∕es 🗹 | No | | NA 🗆 | |
| 6. Sample(s) in proper container(s)? | | | | | Yes 🗹 | No | | | |
| 7. Sufficient sample volume for indicated test(s)? | | | | | Yes 🗹 | No | | | |
| 8. Are samples | (except VOA | and ONG) pro | operly preserved? | 1 | Yes 🗹 | | | _ | |
| 9. Was preserv | rative added t | o bottles? | | , | Yes | No | \checkmark | NA 🗆 | |
| 10.VOA vials ha | ave zero head | space? | | , | Yes 🗌 | No | | No VOA Vials ✓ | |
| 11. Were any sample containers received broken? Yes □ No ☑ # of preserved | | | | | | - | | | |
| 12. Does paperwork match bottle labels? | | | | | Yes ✓ | No | | bottles checked for pH: | |
| (Note discrepancies on chain of custody) | | | | | | | | | or >12 unless noted) |
| 13. Are matrices correctly identified on Chain of Custody? | | | | ١ | res 🗸 | No | | Adjusted? | |
| | 14. Is it clear what analyses were requested? | | | | res 🗹 | No | | Chacked but | |
| 15. Were all hold (If no, notify of | - | e to be met? authorization.) | | ١ | res 🗹 | No | Ц | Checked by: | |
| Coosial Hand | <i>(M</i> | Manhla) | | | | | | | |
| Special Hand | | | | | | | | [4 | |
| 16. Was client no | otified of all di | screpancies w | ith this order? | · · · · · · · · · · · · · · · · · · · | es 🗆 | No | | NA 🗹 | |
| Person | Notified: | | | Date | | | | | |
| By Who | | | 1 | /ia: | eMail [| Phone _ | Fax | In Person | |
| Regard | | distanta and an analysis of the same of th | | | - | | | | |
| | nstructions: | | | | | | | | |
| 17. Additional re | marks: | | | | | | | | |
| 18. Cooler Info | | | Seal Intact Seal I | No Sea | al Date | Signed E | Ву | | |
| | | A | | | A-644 (17)1PM 18/11 19/1 | I | **** | 1 | |



