District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

| Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application Ub103 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 |
| Address: 200 Energy Court, Farmington, NM 87401 |
| Facility or well name: Koch LS 001A |
| API Number: 3004523377 OCD Permit Number: U/L or Qtr/Qtr O Section 3 Township 30N Range 10W County: San Juan |
| U/L or Qtr/Qtr O Section S Township Solv Range Tow County: Sall Starl |
| Center of Proposed Design: Latitude October 12 Longitude Consected NAD85 |
| Surface Owner. Tederal State Trivate Trivate Trivate Indian Anothene |
| Arr Number. |
| 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. TANK A Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A Volume: 95 bbl Type of fluid: Produced Water Tank Construction material: Steel |
| 4. |
| Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. |
| 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify |

Oil Conservation Division

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other

6

8

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.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

| General siting | |
|--|--------------------|
| Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank | □ Yes □ No □ NA |
| Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ☐ No ☐ NA |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality | 🗌 Yes 🗌 No |
| Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | 🗌 Yes 🗌 No |
| Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | 🗌 Yes 🗌 No |
| Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map | 🗌 Yes 🗌 No |
| Below Grade Tanks | |
| Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No |
| Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No |
| Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter) | |
| Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No |
| Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | 🗌 Yes 🗌 No |
| Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No |

| Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | Yes No | | | |
|--|---------------------------------------|--|--|--|
| Temporary Pit Non-low chloride drilling fluid | | | | |
| Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No | | | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | 🗌 Yes 🗌 No | | | |
| Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | 🗌 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. | Yes No | | | |
| NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | | | | |
| 10. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 N <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dot attached.</i> 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 19.15.17.10 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: | cuments are 9 NMAC 15.17.9 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 dot 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: | | | | |

| 12. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance 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 Errosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC | documents are | | | | |
|--|---------------------|--|--|--|--|
| 13. Proposed Closure: 19.15.17.13 NMAC | | | | | |
| Insposed Closure, 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 On-site Trench Burial On-site Closure Method | luid Management Pit | | | | |
| 14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | | | | | |
| 15. | | | | | |
| Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance. | | | | | |
| Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | □ Yes □ No □ 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| Form C-144 Oil Conservation Division Page 4 o | f 6 | | | | |

| 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 play a check mark in the box, that the documents are attached. | 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 believed and b | ef |
| | |
| Name (Print): Title: | |
| Signature: Date: | |
| e-mail address: Telephone: | |
| 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: October (including closure plan) Closure Plan (only) OCD Conditions (see attachment) Title: Ompliance October (including closure plan) OCD Permit Number: | 2017 |
| ^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 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: 7/18/2017 | |
| | op systems only) |

Oil Conservation Division

22. Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Erin Garifalos

Signature:

Title: Field Environmental Coordinator

erin garifalos

Date: September 25, 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

Koch LS #1A API No. 3004523377 Unit Letter O, Section 3, T30N, R10W

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

General Closure Plan

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

Notice is attached.

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

Notice was provided and is attached.

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

BP BGT Closure Plan 04-01-2010

- 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 | < 0.018 |
| Total BTEX | US EPA Method SW-846 8021B or 8260B | 50 | < 0.073 |
| TPH | US EPA Method SW-846 418.1 or 8015 extended | 100 | <48 |
| 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.

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 and a 105 BBL shallow low profile above-grade tank to be set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled and a 105 BBL shallow low profile above-grade tank to be set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled and a 105 BBL shallow low profile above-grade tank to be set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled and a 105 BBL shallow low profile above-grade tank to be set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

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

The area has been backfilled and a 105 BBL shallow low profile above-grade tank to be set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

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

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.

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

Release Notification and Corrective Action

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

| | | | | | | OPERA | ΓOR | | 🗌 Initia | l Report | Fina | l Report |
|--|--|--|--|---|---------------------------------|---------------------------------|---|--|---|---|--|--------------------|
| Name of Company: BP | | | | | (| Contact Erin Garifalos | | | | | | |
| Address: 200 Energy Court, Farmington, NM 87401 | | | | | Telephone 1 | No. (832) 609-7 | 048 | | | | | |
| Facility Nar | me KOCH | LS 001A | | |] | Facility Type: Natural Gas Well | | | | | | |
| Surface Owner: Federal Mineral Owner | | | | | wner: | Federal | | | API No. | : 30045233 | 377 | |
| | | | | LOCA | TION | OF RE | FASE | | | | | |
| Unit Letter | Section | Township | Range | | | South Line | Feet from the | East/W | est Line | County | | |
| 0 | 3 | 30N | | | Sou | | 1,500 | Eas | | Sa | an Ji | uan |
| | | | Latituc | e 36.836742 | Lo | ongitude1 | 07.86579 | NAD8 | 3 | | | |
| | | | | NAT | URE | OF REL | EASE | | | | | |
| Type of Rele | | | | | | Volume of | Release: unknov | vn | | ecovered: N/ | | |
| | | w grade tank | k - 95 bbl | | | | lour of Occurrenc | e | Date and I | Hour of Disco | very | |
| Was Immedia | ate Notice (| |] Yes 🗌 |] No 🗌 Not Red | quired | If YES, To | Whom? | | | | | |
| By Whom? | | | | | | Date and H | | | | | | |
| Was a Water | course Read | ched? | Yes | No | | If YES, Vo | lume Impacting t | he Water | rcourse. | | | |
| If a Watanaa | | pacted, Descr | | | | | | | | | | |
| | | em and Reme and Cleanup / | | Samp Soil a closur | nalys e sta | is results ndards. F | beneath the for Chloride field reports | s, BTE and la | EX, and Iborator | TPH wer y results a | e below are atta | BGT |
| | | | | No actior remedial | | - | inal laborato ired. | ory an | alysis d | etermine | d no | |
| regulations al public health should their of or the environ | ll operators or the envi operations h nment. In a | are required t ronment. The nave failed to a | o report and acceptance adequately OCD accept | is true and completed ad/or file certain re- tee of a C-141 repor- investigate and re- tance of a C-141 re- | lease no t by the mediate | NMOCD m contaminati | ad perform correct arked as "Final Re on that pose a three e the operator of r | tive actio eport" do eat to gro responsib | ons for rele bes not relie ound water, bility for co | ases which m eve the operat surface wate mpliance with | ay endange or of liabili r, human h h any other | er ity ealth |
| | | | | | | | OIL CONS | SERV | ATION | DIVISION | 1 | |
| Signature: | | n garif | | - | I | Approved by | Environmental Sp | pecialist: | | | | |
| Printed Name | Erin G | Garifalos | | | | | | | | | | |
| | | onmenta | | rdinator | F | Approval Dat | e: | E | xpiration D | Date: | | |
| E-mail Addre | ess: erin. | garifalos | @bp. | com | | Conditions of | | | | Attached [| _ | |
| Date: Sept | ember 2 | 25, 2017 | Phone: | (832) 609-70 | 48 | Attached | | | | | - | |

* Attach Additional Sheets If Necessary

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

July 7, 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: KOCH LS 001A API #: 3004523377

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 July 12, 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, July 07, 2017 7:46 AM |
| То: | 'Smith, Cory, EMNRD'; 'Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)'; 'brandon.powell@state.nm.us' |
| Cc: | 'jeffcblagg@aol.com'; 'blagg_njv@yahoo.com'; Moskal, Steven; Garifalos, Erin |
| Subject: | BP Pit Close Notification - KOCH LS 001A |

BP America Production Company 200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

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

July 7, 2017

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

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

KOCH LS 001A API 30-045-23377 (O) Section 3 – T30N – R10W 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 July 12, 2017.

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

Sincerely,

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

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

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

| CLIENT: BP | P.O. BOX 87, BL | IGINEERING, INC OOMFIELD, NM 8 5) 632-1199 | | API #: 3004523 | |
|--|--|--|---------------|---|-------------------------------------|
| FIELD REPORT: | (circle one): BGT CONFIRMATION / | | ER: | PAGE #: | of 1 |
| | 30N RNG: 10W PM: | NM CNTY: SJ | st: NM | DATE STARTED: 07/ DATE FINISHED: | 13/17 |
| 1/4 -1/4/FOOTAGE: 1,190'S / 1,5 LEASE #: NM0607 | | PE: FEDERAL/STATE/FE STRIKE NTRACTOR: MBF-R.PO | | ENVIRONMENTAL SPECIALIST(S): NJV | & JCB |
| 2) 3) | GPS COORD.: 36.8 | 36742 X 107.86579 | DISTANCE/BEAF | GL ELEV.: (RING FROM W.H.: 140', N RING FROM W.H.: | 21.5E |
| SAMPLING DATA: | CHAIN OF CUSTODY RECORD(S) # OF | | | | OVM READING |
| 1) SAMPLE ID: 5PC - TB @ 4.5" 2) SAMPLE ID: | (95) SAMPLE DATE: | 17 SAMPLE TIME: 1350 LAE SAMPLE TIME: LAE SAMPLE TIME: LAE | 3 ANALYSIS: | | (ppm) 0.0 |
| 5) SAMPLE ID: | SAMPLE DATE: | | | | |
| 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 N SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM NOT PRESEN | OSE FIRM DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED OF PTS O EXPLANATION LOST INTEGRITY OF EQUIPMENT: D AND/OR OCCURRED : YES NO EXPLA YES NO EXPLANATION - 105 BBL TO WITNESS CONFIRMATION SA | NATION: SHALLOW LOW PROFILE ABO MPLING. | YES NO EXPLAN | NATION | |
| EXCAVATION DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: >100' N | NA ft. X NA EAREST WATER SOURCE: >1,000' | | | IMATION (Cubic Yards) : | NA 00 ppm |
| SITE SKETCH | BGT Located : off on site | PLOT PLAN circle: | attached OWM | CALIB. READ. = 100.0 pp CALIB. GAS = 100 pp | 0 ^m RF =0.52 07/13/17 |
| Compressor | X / | v | | D: VHIXONEVB2 J #: ermit date(s): 06/0 CD Appr. date(s): 04/0 Ik OVM = Organic Vapor Medica | 2/10 8/16 tter |
| APPLICABLE OR NOT AVAILABLE; SW - SINGLE | OW+GRADE TANK LOCATION; SPD = SAMPLE PO E WALL; DW - DOUBLE WALL; SB - SINGLE BOTT(| OW, T.H. = TEST HOLE; ~ = APPROX.; W.H. INT DESIGNATION; R.W. = RETAINING WAL DM; DB - DOUBLE BOTTOM. | | BGT Sidewalls Visible: Y / lagnetic declination: 10 | |
| NOTES: GOOGLE EARTH IMAGE | ERY DATE: 3/15/2015. | ONSITE: 07/13/17 | | | |

| A | na | ly | tical | Report | |
|---|----|----|-------|--------|--|
| | | | | | |

Lab Order 1707658

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/18/2017

| CLIENT: Blagg Engineering | | | Client San | nple ID: 5PC-TB @ 4.5' (95) | |
|---------------------------------|-------------|----------|-------------------|-------------------------------|------------|
| Project: KOCH LS #1A | | | Collectio | on Date: 7/13/2017 1:50:00 PM | Λ |
| Lab ID: 1707658-001 | Matrix: | SOIL | Receive | ed Date: 7/14/2017 7:05:00 Al | М |
| Analyses | Result | PQL (| Qual Units | DF Date Analyzed | Batch |
| EPA METHOD 300.0: ANIONS | | | | Ana | alyst: MRA |
| Chloride | ND | 30 | mg/Kg | 20 7/14/2017 10:29:24 | AM 32801 |
| EPA METHOD 8015M/D: DIESEL RANG | GE ORGANICS | 6 | | Ana | lyst: JME |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 7/14/2017 10:04:02 | AM 32799 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 7/14/2017 10:04:02 | AM 32799 |
| Surr: DNOP | 95.4 | 70-130 | %Rec | 1 7/14/2017 10:04:02 | AM 32799 |
| EPA METHOD 8015D: GASOLINE RAN | GE | | | Ana | lyst: NSB |
| Gasoline Range Organics (GRO) | ND | 3.6 | mg/Kg | 1 7/14/2017 10:43:35 | AM 32797 |
| Surr: BFB | 98.9 | 54-150 | %Rec | 1 7/14/2017 10:43:35 | AM 32797 |
| EPA METHOD 8021B: VOLATILES | | | | Ana | lyst: NSB |
| Benzene | ND | 0.018 | mg/Kg | 1 7/14/2017 10:43:35 | AM 32797 |
| Toluene | ND | 0.036 | mg/Kg | 1 7/14/2017 10:43:35 | AM 32797 |
| Ethylbenzene | ND | 0.036 | mg/Kg | 1 7/14/2017 10:43:35 | AM 32797 |
| Xylenes, Total | ND | 0.073 | mg/Kg | 1 7/14/2017 10:43:35 | AM 32797 |
| Surr: 4-Bromofluorobenzene | 135 | 66.6-132 | S %Rec | 1 7/14/2017 10:43:35 | AM 32797 |

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

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

| G | nain-c | of-Cus | tody Record | Turn-Around | Time: | SAME | | | | | | LE | | /TE | 20 | | | BIT | - | | |
|------------------------------|---|-------------|--|-------------------------|--|-------------------------------|---------------|-------------|----------------|--------------------|--------------------|---|---|--|-------------|-----------------|--------------------------|-------|-------------|------------------------|----------------------|
| Client: | Client: BLAGG ENGR. / BP AMERICA | | | Standard | (☑ Rush _ | DAY | | | | | | | | | | | | | | | |
| | | | | Project Name | and the second design of the s | | | | | | | .halle | | | | | | | | | |
| Mailing Address: P.O. BOX 87 | | | 1 | KOCH LS # | 1A | | 49 | 01 H | | | E - A | | | | | | 9 | | | | |
| | BLOOMFIELD, NM 87413 | | | Project #: | | | | | |)5-34 | | | Fax | - | | | , | | | | |
| Phone #: | | | | 1 | | | | | - 1. | | | | lysis | Re | ques | st | | ŧ. | | | |
| email or F | ax#: | | ······································ | Project Mana | ger: | | | | | | Т | T | () | | | | (1.) | 1 | Т | | |
| | A/QC Package: Standard Level 4 (Full Validation) | | ST. | EVE Mosk EFF BLAC | AC | 101CO | H (Gas only) | / MRO) | | | IS) | PO4, SO | PCB's | | | water - 300.1) | | | Ø | | |
| Accreditat | tion: | | | Sampler: J | EFF BLAC | 10 9 | 22 | + TPH (Gas | / DRO | F | F | SIN | 02,1 | 3082 | | | /wa | | | Idu | |
| NELAP Other | | On lee and | Wes. | II No | | TPH | 0/1 | 418. | 504. | 8270 | . °° | ss / 8 | | (YO | 300.0 | | | e sa | r N) | | |
| | ype) | | | Sample Temp | erature | 1:0 | L | + 38 | (GR | po | por | or | C,N | cide | (A) | i-V | ofl - 3 | | e | osit | No |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL NO. | TEV - MT | BTEX + MTBE | TPH 8015B (GRO | TPH (Method 418.1) | EDB (Method 504.1) | PAH (8310 or 8270SIMS) RCRA 8 Metals | Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (soil - 300.0 / | | Grab sample | 5 pt. composite sample | Air Bubbles (Y or N) |
| 7/13/17 | 1350 | SOIL | 5PC - TB @ 4 5 (95) | Merth.t. 4 02 1 | Cool | 1767653 | | | F ▼ | F | | | | - model and a model an | 00 | 60 | o √ | | | v √ | Ai |
| 15/17 | 1000 | JOIL | 570-10 8 7.5 1551 | 4021 | COOI | -20 | (| | V | | -+ | | + | | | | V | | | v | |
| | | | | | | | | + | | | | | + | - | | | | | | - | |
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| | | | | | | | \rightarrow | | | | _ | _ | + | - | | | | _ | _ | \rightarrow | |
| | | | | | | | _ | | - | | _ | | | | | | | | \square | $ \rightarrow$ | |
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| | | | | | | | | | | | | | | T | | | | | | | |
| Date: 7/13/17 | Time: 1432 | Relinquishe | Begg | Received by: | lihala 7/ | Date Time | | emark | | & REF | ERENC | E # WH | EN API | PLICA | BLE; | | VITH C | ORRES | PONE | DING | VID |
| Date: | Time: | Refinquishe | the by: | Received by: | 107 | Date Time 1/14/17 ()705 | | | VID: | VHD | | | / VA | NCE | | ALM A | | | | | |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Hall Environmental Analysis Laboratory, Inc.

Blagg Engineering **Client: Project:** KOCH LS #1A

| Sample ID MB-32801 | SampType: mblk | TestCode: EPA Method | 300.0: Anions | |
|--|---|--------------------------------------|-------------------------------|---------------|
| Client ID: PBS | Batch ID: 32801 | RunNo: 44224 | | |
| Prep Date: 7/14/2017 | Analysis Date: 7/14/2017 | SeqNo: 1397449 | Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Chloride | ND 1.5 | | | |
| | | | | |
| Sample ID LCS-32801 | SampType: Ics | TestCode: EPA Method | 300.0: Anions | |
| Sample ID LCS-32801 Client ID: LCSS | SampType: Ics Batch ID: 32801 | TestCode: EPA Method RunNo: 44224 | 300.0: Anions | |
| | 1 21 | | 300.0: Anions Units: mg/Kg | |
| Client ID: LCSS | Batch ID: 32801 Analysis Date: 7/14/2017 | RunNo: 44224 | | RPDLimit Qual |

Qualifiers:

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

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18-Jul-17

WO#: 1707658

RL Reporting Detection Limit W

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering **Project:** KOCH LS #1A

| Sample ID MB-32799 | SampT | ype: ME | BLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|--------------------------------|------------|---------|-----------|---|-----------|-----------|-------------|-----------|------------|------|--|
| Client ID: PBS | Batch | ID: 32 | 799 | F | | | | | | | |
| Prep Date: 7/14/2017 | Analysis D | ate: 7/ | 14/2017 | S | SeqNo: 1 | 396101 | Units: mg/M | (g | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | | |
| Surr: DNOP | 9.1 | | 10.00 | | 91.4 | 70 | 130 | | | | |
| Sample ID LCS-32799 | SampT | ype: LC | S | Tes | tCode: El | PA Method | 8015M/D: Di | esel Rang | e Organics | | |
| Client ID: LCSS | Batch | ID: 32 | 799 | F | RunNo: 4 | 4216 | | | | | |
| Prep Date: 7/14/2017 | Analysis D | ate: 7/ | 14/2017 | S | SeqNo: 1 | 396102 | Units: mg/M | g | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | 53 | 10 | 50.00 | 0 | 106 | 73.2 | 114 | | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 95.4 | 70 | 130 | | | | |

Qualifiers:

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

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WO#: 1707658

18-Jul-17

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering **Project:** KOCH LS #1A

| Sample ID MB-32797 | SampType: I | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|-------------------------------|--------------------------|--|----------------|----------|--------------|--------------|------|----------|------|
| Client ID: PBS | Batch ID: | F | RunNo: 44218 | | | | | | |
| Prep Date: 7/13/2017 | Analysis Date: | SeqNo: 1397136 | | | 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 | 1000 | 1000 | | 103 | 54 | 150 | | | |
| Sample ID LCS-32797 | SampType: I | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: LCSS | Batch ID: | 2797 | F | RunNo: 4 | 4218 | | | | |
| Prep Date: 7/13/2017 | Analysis Date: 7/14/2017 | | SeqNo: 1397137 | | | Units: mg/Kg | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| | | | 10.00 | 1000 | | | | | |
| Gasoline Range Organics (GRO) | 24 5. | 0 25.00 | 0 | 97.1 | 76.4 | 125 | | | |

Qualifiers:

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

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WO#: 1707658

18-Jul-17

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Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering **Project:** KOCH LS #1A

| Sample ID MB-32797 | SampT | ype: ME | BLK | Tes | tCode: E | PA Method | 8021B: Vola | tiles | | |
|----------------------------|------------|-----------------|-----------|-------------|-----------|-----------|--------------|-------|----------|------|
| Client ID: PBS | Batch | Batch ID: 32797 | | | RunNo: 4 | | | | | |
| Prep Date: 7/13/2017 | Analysis D | ate: 7/ | 14/2017 | S | SeqNo: 1 | 397159 | Units: mg/M | ٢g | | |
| 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 | 1.4 | | 1.000 | | 137 | 66.6 | 132 | | | S |
| Sample ID LCS-32797 | SampT | ype: LC | S | Tes | tCode: El | PA Method | 8021B: Volat | tiles | | |
| Client ID: LCSS | Batch | n ID: 32 | 797 | F | unNo: 4 | 4218 | | | | |
| Prep Date: 7/13/2017 | Analysis D | ate: 7/ | 14/2017 | S | eqNo: 1 | 397160 | Units: mg/k | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.025 | 1.000 | 0 | 112 | 80 | 120 | | | |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 113 | 80 | 120 | | | |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 114 | 80 | 120 | | | |
| Xylenes, Total | 3.5 | 0.10 | 3.000 | 0 | 116 | 80 | 120 | | | |
| Aylonos, rotar | 0.0 | 0.10 | 0.000 | • | | | | | | |

Qualifiers:

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

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WO#: 1707658

| ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-35 | tal Analysis Laborato 4901 Hawkins N Albuquerque, NM 8710 975 FAX: 505-345-410 hallenvironmental.co | ^{VE} 09 Sam | ple Log-In Check List |
|--|---|--------------------------------|--|
| Client Name: BLAGG Work Order Numb | per: 1707658 | | RcptNo: 1 |
| Received By: Anne Thome 7/14/2017 7:05:00 A Completed By: Anne Thome 7/14/2017 7:28:03 A Reviewed By: STRC 07(14/(7) | | Anne Ir- Anne Ir- | |
| Chain of Custody | | | |
| 1 Custody seals intact on sample bottles? | Yes | No 🗌 | Not Present 🗹 |
| 2, is Chain of Custody complete? | Yes 🗹 | No | Not Present |
| 3. How was the sample delivered? | Courier | | |
| Log In | | | |
| 4. Was an attempt made to cool the samples? | Yes 🗹 | No 🗌 | NA 🗌 |
| 5. Were all samples received at a temperature of $>0^{\circ}$ C to 6.0°C | Yes 🖌 | No 🗌 | |
| 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) properly preserved? | Yes 🗹 | No 🗌 | |
| 9. Was preservative added to bottles? | Yes | No 🗹 | NA 🗆 |
| 10.VOA vials have zero headspace? | Yes | No 🗆 | No VOA Vials 🗹 |
| 11. Were any sample containers received broken? | Yes | No 🗹 | |
| 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes 🗹 | No 🗌 | # of preserved bottles checked for pH: (<2 or >12 unless noted) |
| 13. Are matrices correctly identified on Chain of Custody? | Yes 🗹 | No 🗌 | Adjusted? |
| 14. Is it clear what analyses were requested? | Yes 🗹 | No 🗌 | |
| 15. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes 🗹 | No 🗌 | Checked by: |
| Special Handling (if applicable) | | | |
| 16. Was client notified of all discrepancies with this order? | Yes | No 🗌 | NA 🗹 |
| Person Notified: Date By Whom: Via: Regarding: Client Instructions: | | one 🗌 Fax | |
| 17. Additional remarks: | | | |
| 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 1 1.0 Good Yes Page 1 of 1 | Seal Date S | Signed By | |



