District 1 1625 N. French Dr., Hobbs, NM 88240 District III 1301 W. Grand Avenue, Artesia, NM 88210 District IIII 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

| Pit, Closed-Loop System, Below-Grade Tank, or |
|---|
| Proposed Alternative Method Permit or Closure Plan Application |
| Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit |
| Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method |
| Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, 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. |
| Departor: BP AMERICA PRODUCTION COMPANY OGRID #: 778 |
| Address: 380 North Airport Road, Durango, CO 81303 |
| Facility or well name: CORNELL A 001E |
| API Number: 3004524132 OCD Permit Number: |
| U/L or Qtr/Qtr N Section 10.0 Township 29.0N Range 12W County: San Juan County |
| Center of Proposed Design: Latitude 36.73650 Longitude -108.08926 NAD: 1927 🗷 1983 |
| Surface Owner: 🗵 Federal 🗌 State 🗌 Private 🗌 Tribal Trust or Indian Allotment |
| 2. |
| Pit: Subsection F or G of 19.15.17.11 NMAC JAN 15 2019 |
| remporary. Drining D workover |
| Permanent Emergency Cavitation P&A DISTRICT III |
| Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other |
| String-Reinforced |
| Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D |
| 3. Closed-loop System: Subsection H of 19.15.17.11 NMAC |
| Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of |
| intent) |
| Drying Pad Above Ground Steel Tanks Haul-off Bins Other |
| Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other |
| Liner Seams: Welded Factory Other |
| 4. |
| Elow-grade tank: Subsection I of 19.15.17.11 NMAC Tank ID: A |
| Volume: 95.0 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 OUBLE WALLED DOUBLE BOTTOMED SIDEWALLS NOT VISIBLE |
| |
| Liner type: Thickness mil _ HDPE _ PVC _ Other |
| Liner type: Thicknessmil U HDPE PVC Other |

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

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

Screen Netting Other

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

Administrative Approvals 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:

Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10.

6.

| Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system. | priate district pproval. |
|--|-----------------------------|
| Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | Yes No |
| 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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No ☐ NA |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | ☐ Yes ☐ No ☐ NA |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality | 🗌 Yes 🗌 No |
| Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | 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. | Yes No |

FEMA map

| · · · | |
|---|--|
| II. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Instructions: Each of the following items must be attached to the application. Please indicate, by a check attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subset Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements and 19.15.17.13 NMAC | <i>k mark in the box, that the documents are</i> ction B of 19.15.17.9 NMAC of Subsection B of 19.15.17.9 NMAC NMAC |
| Previously Approved Design (attach copy of design) API Number: or H | Permit Number: |
| 12. Closed-loop Systems Permit Application Attachment 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 attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragra Siting Criteria Compliance Demonstrations (only for on-site closure) - 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 requirement and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: Previously Approved Operating and Maintenance Plan API Number: above ground steel tanks or haul-off bins and propose to implement waste removal for closure) | uph (3) of Subsection B of 19.15.17.9 quirements of 19.15.17.10 NMAC rements of Subsection C of 19.15.17.9 NMAC |
| 13. 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 attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 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 Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention 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 Muisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19 | NMAC NMAC 7.11 NMAC 15.17.11 NMAC 1 NMAC |
| 14. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure Type: Drilling Workover Emergency Cavitation P&A Proposed Closure Method: Waste Excavation and Removal Waste 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 (Exceptions must be submitted to the Santa Fe 15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Onfirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection 1 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 1 Re-vegetation Plan - based upon the appropriate requirements of Subsection 1 of 19.15.17.13 NMAC | rade Tank Closed-loop System Environmental Bureau for consideration) he following items must be attached to the F of 19.15.17.13 NMAC |
| Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC | AC |

| ^{16.} Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Stee Instructions: Please indentify the facility or facilities for the disposal of liquids, drilla | | |
|--|---|-----------------------|
| facilities are required. | 05 | |
| Disposal Facility Name: Dis | oosal Facility Permit Number: | |
| | oosal Facility Permit Number: | |
| Will any of the proposed closed-loop system operations and associated activities occur Yes (If yes, please provide the information below) No | | |
| Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection I of Re-vegetation Plan - based upon the appropriate requirements of Subsection I of Site Reclamation Plan - based upon the appropriate requirements of Subsection C | 19.15.17.13 NMAC | 2 |
| ^{17.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closu provided below. Requests regarding changes to certain siting criteria may require ad considered an exception which must be submitted to the Santa Fe Environmental Bun demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for g | ministrative approval from the appropriate distr eau office for consideration of approval. Justij | rict office or may be |
| Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obt | ained from nearby wells | ☐ Yes ☐ No ☐ NA |
| Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obt | ained 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 obt | ained from nearby wells | Yes No |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | ant watercourse or lakebed, sinkhole, or playa | Yes No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in e - Visual inspection (certification) of the proposed site; Aerial photo; Satellite ima | | Yes No |
| Within 500 horizontal feet of a private, domestic fresh water well or spring that less that watering purposes, or within 1000 horizontal feet of any other fresh water well or spring - NM Office of the State Engineer - iWATERS database; Visual inspection (certification of the state engineer - iWATERS database). | , in existence at the time of initial application. | Yes No |
| Within incorporated municipal boundaries or within a defined municipal fresh water we adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval objective of the section of the sect | | Yes No |
| Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inst | pection (certification) of the proposed site | 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 & Society; Topographic map | Mineral Resources; USGS; NM Geological | Yes No |
| Within a 100-year floodplain. - FEMA map | | Yes No |
| 18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the follow a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Sub Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - Construction Sampling Plan of Temporary Pit (for in-place burial of a drying pad) - Protocols and Procedures - based upon the appropriate requirements of 19.15.17. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Sub Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill of Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill of Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill of Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill of Disposal Facility Name and Permit Number (for liquids). | nents of 19.15.17.10 NMAC section F of 19.15.17.13 NMAC oriate requirements of 19.15.17.11 NMAC based upon the appropriate requirements of 19.1 13 NMAC nents of Subsection F of 19.15.17.13 NMAC section F of 19.15.17.13 NMAC | 15.17.11 NMAC |

Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

Soll Cover Design - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

| 19. 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 belief. |
| Name (Print): Title: |
| Signature: Date: |
| e-mail address: Telephone: |
| 20. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) |
| OCD Representative Signature: Approval Date: Approval Date: |
| Title: Environmental Spec. OCD Permit Number: |
| 21. Closure Report (required within 60 days of closure completion): Subsection K of 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. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. X Closure Completion Date: |
| 22. |
| Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain. |
| ^{23.} <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:</u> <i>Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than</i> <i>two facilities were utilized.</i> |
| Disposal Facility Name: Disposal Facility Permit Number: |
| Disposal Facility Name: Disposal Facility Permit Number: |
| Were the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) No |
| Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique |
| 24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. □ Proof of Closure Notice (surface owner and division) □ Proof of Deed Notice (required for on-site closure) □ Plot Plan (for on-site closures and temporary pits) ⊠ Confirmation Sampling Analytical Results (if applicable) □ Waste Material Sampling Analytical Results (required for on-site closure) □ Disposal Facility Name and Permit Number ⊠ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique ⊠ Site Reclamation (Photo Documentation) On-site Closure Location: Latitude 36.73650 Longitude -108.08926 NAD: □1927 🗙 1983 |
| 25. 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): Steve Moskal Title: Field Environmental Coordinator |
| Signature: Man Date: 1/14/2019 |
| e-mail address: steven.moskal@bpx.com Telephone: 505-330-9179 |

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| Operator Closure Certification: | |
|--|------------|
| I hereby certify that the information and attachments submitted with this closure repor- belief. I also certify that the closure complies with all applicable closure requirement | |
| Name (Print): | Title: |
| Signature: | Date: |
| e-mail address: | Telephone: |
| | |

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District I 1625 N. French Dr., Hobbs, NM 88240 District III 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

| Incident ID | |
|----------------|--|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party BP America Production Company | OGRID 778 |
|--|----------------------------------|
| Contact Name Steve Moskal | Contact Telephone (505) 330-9179 |
| Contact email Steven.Moskal@bpx.com | Incident # (assigned by OCD) |
| Contact mailing address 380 North Airport Road, Durang | go, CO 81303 |

Location of Release Source

| Latitude | 36. | 73650 | (NAD 83 in de | Longitude | -108.08926 | |
|--------------|------------|----------|---------------|----------------------|--------------|--|
| Site Name C | CORNELL | A 001E | | Site Type Natur | ral Gas Well | |
| Date Release | Discovered | | | API# (if applicable) | 30-045-24132 | |
| Unit Letter | Section | Township | Range | County | | |

| Sint Better | Section | rounsinp | runge | county | |
|-------------|---------|----------|-------|----------|--|
| Ν | 10 | 29N | 12W | San Juan | |
| | | | | | |

Surface Owner: State Federal Tribal Private (Name: _

Nature and Volume of Release

| Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) | | |
|---------------------------------------|--|---|--|--|
| Produced Water Volume Released (bbls) | | Volume Recovered (bbls) | | |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | Yes No | | |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) | | |
| Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) | | |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) | | |
| Cause of Release TPI | H, BTEX, & chloride all below below-grade | tank (BGT) permit closure standards | | |
| | | | | |
| | | | | |

Form C-141 Page 2

State of New Mexico Oil Conservation Division

| Incident ID | |
|----------------|--|
| District RP | |
| Facility ID | |
| Application ID | |

| Was this a major | If YES, for what reason(s) does the responsible party consider this a major release? |
|-------------------------|---|
| release as defined by | |
| 19.15.29.7(A) NMAC? | |
| | |
| 🗌 Yes 🖾 No | |
| | |
| | |
| | |
| If YES, was immediate n | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |
| | |
| Not required. | |
| | |

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| Printed Name: Steve Moskal | Title: Environmental Coordinator |
|-------------------------------------|----------------------------------|
| Signature: | Date: |
| email: <u>Steven.Moskal@bpx.com</u> | Telephone: (505) 330-9179 |
| | |
| OCD Only | |
| Received by: | Date: |

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>Cornell A # 1E – Tank ID: A</u> <u>API #: 3004524132</u> Unit Letter N, Section 10, T29N, 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 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

- 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 documented in the attached email.

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)
 - d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
 - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
 - f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
 - g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
 - h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
 - i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
 - j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
 - k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

All liquids and/or sludge within 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 |
|--------------|-------------------------------------|----------------------|---------|
| | | (mg/Kg) | Results |
| Benzene | US EPA Method SW-846 8021B or 8260B | 0.2 | < 0.022 |
| Total BTEX | US EPA Method SW-846 8021B or 8260B | 50 | < 0.089 |
| TPH | US EPA Method SW-846 418.1 | 100 | <50 |
| Chlorides | US EPA Method 300.0 or 4500B | 250 or background | <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 beneath the BGT was sampled for TPH, BTEX, and chloride. All test parameters were below the stated limits. A field and laboratory reports are attached.

- BP shall notify the division District III office of its results on form C-141. C-141 is attached.
- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
 Sampling results reveal no evidence of a release has occurred.
- 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.

<u>Sampling results reveal no evidence of a release has occurred.</u> Area was backfilled with clean, earthen material and is within the active well pad.

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.

<u>The BGT area has been backfilled and will be reclaimed once the well has been plugged & abandoned.</u>

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.

<u>The BGT area has been backfilled and will be reclaimed once the well has been plugged & abandoned.</u>

- 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 BGT area has been backfilled and will be reclaimed once the well has been plugged & abandoned.
- 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.
 <u>The BGT area has been backfilled and will be reclaimed once the well has been plugged & abandoned.</u>
- 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 re-vegetation.
 <u>BP will notify NMOCD when re-vegetation is successfully completed.</u>
- 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.

<u>Closure report on C-144 form is included & contains a photo of the reclamation completion.</u>

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.

RE: BP Pit Close Notification - CORNELL A 001E

Farrah Buckley <Farrah.Buckley@bpx.com>
 To:Smith, Cory, EMNRD,Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)
 Cc:jeffcblagg@aol.com,blagg_njv@yahoo.com,Steven Moskal,Matthew Baca

Nov 7, 2018 at 9:16 AM

The BGT closure on this location has been rescheduled for Friday November 9th at 12. I have updated the date on the letter below.

Thank you. Farrah

From: Farrah Buckley
Sent: Thursday, November 01, 2018 2:11 PM
To: Smith, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)
Cc: jeffcblagg@aol.com; blagg_njv@yahoo.com; Steven.Moskal@BPX.COM; Matthew Baca
Subject: BP Pit Close Notification - CORNELL A 001E

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

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

November 1, 2018

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

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

CORNELL A 001E API 30-045-24132 (N) Section 10 – T29N – 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 November 9, 2018.

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

Sincerely,

Steve Moskal BP Lower 48 – San Juan Field Environmental Coordinator Phone: (505) 330-9179

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.

bp



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

November 1, 2018

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

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: CORNELL A 001E API# - 3004524132

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 November 7, 2018. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

If witnessing of the tank removal is required please contact me for a specific time (505)-330-9179.

Sincerely,

Steve Moskal BP Lower 48 – San Juan Field Environmental Coordinator

| | P.O. BOX 87, | ENGINEERIN BLOOMFIEL 505) 632-1199 | 13 | API #:300452 | 24132 A | | | | | | |
|--|-------------------------------------|--|--------------------------|---------------|--|----------------|--|--|--|--|--|
| FIELD REPORT: | (circle one): BGT CONFIRMATION | | | | PAGE #: 1 | of _1 | | | | | |
| SITE INFORMATION | I: SITE NAME: CORN | IELL A #1E | | | DATE STARTED: 11 | /09/18 | | | | | |
| QUAD/UNIT: N SEC: 10 TWP: | 29N RNG: 12W P | M: NM CNTY | SJ ST: | NM | DATE FINISHED: | | | | | | |
| 1/4 -1/4/FOOTAGE: 910'S / 1,76 | O'W SE/SW LEAS | E TYPE: FEDERAL | STATE / FEE / IN | DIAN | ENVIRONMENTAL | | | | | | |
| LEASE #: NM014375 | | NJV | | | | | | | | | |
| LEASE #: NM014375 PROD. FORMATION: DK CONTRACTOR: BP - M. BACA SPECIALIST(S): REFERENCE POINT: Well Head (W.H.) GPS COORD.: 36.73642 X 108.08945 GL ELEV.: | | | | | | | | | | | |
| 1) 95 BGT (DW/DB) | GPS COORD.: | | | | | | | | | | |
| 2) | | | | | RING FROM W.H.: | | | | | | |
| 3) | GPS COORD.: | | | DISTANCE/BEAF | RING FROM W.H.: | | | | | | |
| 4) | GPS COORD.: | | | | | | | | | | |
| SAMPLING DATA: | CHAIN OF CUSTODY RECORD(S) | # OR LAB USED: | HALL | | | OVM READING | | | | | |
| 1) SAMPLE ID: 5PC - TB @ 5' | | | | 801 | 15B/8021B/300.0 (CI) | (ppm) NA | | | | | |
| | SAMPLE DATE: | | | | | | | | | | |
| SAMPLE ID: | SAMPLE DATE: | | | | | | | | | | |
| 5) SAMPLE ID: | SAMPLE DATE: | | | | | | | | | | |
| SOIL DESCRIPTION | | | | | | | | | | | |
| SOIL COLOR: PALE YEL | | | | | OHESIVE / MEDIUM PLASTIC / H | IGHLY PLASTIC | | | | | |
| COHESION (ALL OTHERS): NON COHESIVE SLIGHT | | | | | STIFF / VERY STIFF / HARD | IGHEITE IGHO | | | | | |
| CONSISTENCY (NON COHESIVE SOILS): | | | YES NO EXPLANATI | ION - | | | | | | | |
| MOISTURE: DRY / SLIGHTLY MOIST / MOIST / V SAMPLE TYPE: GRAB COMPOSITE | | | NG WETNESS: YES | | | | | | | | |
| DISCOLORATION/STAINING OBSERVED: YES | | ANT AREAS DISPLAT | NG WEINESS: TES | NU EXPLAN | NATION | | | | | | |
| SITE OBSERVATION | | | ION - | | | | | | | | |
| APPARENT EVIDENCE OF A RELEASE OBSERV | ED AND/OR OCCURRED : YES NO E | | | | | | | | | | |
| EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM REPS. NOT P | YES NO EXPLANATION - | MATION SAMPLING | | GED & AF | | | | | | | |
| | | ATTON OAM LING. | | | BANDONED (FOA). | | | | | | |
| EXCAVATION DIMENSION ESTIMATION | | ft. X NA | | | TIMATION (Cubic Yards) : | NA | | | | | |
| DEPTH TO GROUNDWATER: < 50' x < 100 | | | CE WATER: < 30 | N 100 | MOCD TPH CLOSURE STD: | 100 ppm | | | | | |
| SITE SKETCH | BGT Located : off / on | site PLOT PL | AN circle: attac | hed OVM | Calib. Read. = NA | _ppm RF = 1.00 | | | | | |
| | | | | | Calib. Gas = NA | _ppm | | | | | |
| | | | | | : NA am/pm DATE: | NA | | | | | |
| | PBGTL | PERIMETER SECURITY | | ' | MISCELL. NO | DTES | | | | | |
| | T.B. ~5' B.G. | FENCE | | P | o#: 4301004787 | | | | | | |
| | | | | R | EF #: | | | | | | |
| | | X | | V | ID: | | | | | | |
| ТО | | | | P | J #: | | | | | | |
| P&A | \mathbf{X} | BERM | | | | 08/10 | | | | | |
| MARKER | PROD. TANK | , , | | O | | 08/18 Meter | | | | | |
| | × | | | ID | | n | | | | | |
| | | | | | BGT Sidewalls Visible: Y BGT Sidewalls Visible: Y | | | | | | |
| | | | X - S.F | | BGT Sidewalls Visible: Y | | | | | | |
| NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVAT T.B. = TANK BOTTOM; PBGTL = PREVIOUS BE APPLICABLE OR NOT AVAILABLE; SW - SINGI | LOW-GRADE TANK LOCATION; SPD = SAMP | LE POINT DESIGNATION; R.W. | = RETAINING WALL; NA - N | | lagnetic declination: | | | | | | |
| NOTES: GOOGLE EARTH IMAG | ERY DATE: 3/15/2015. | ONSITE: | 11/09/18 | | | | | | | | |

| Hall Environmental Analysi | s Laboratory, | Inc. | | | Lab Order 1811571 Date Reported: 11/13/2 | 018 |
|---|---------------|----------|----------------|--------|--|---------|
| CLIENT: Blagg Engineering Project: Cornell A 1E Lab ID: 1811571-001 | Matrix: MEOH | Ce | ollection Date | e: 11/ | C-TB @ 5' (95) 9/2018 12:15:00 PM /10/2018 11:12:00 AM | 1 |
| Analyses | Result | | | | Date Analyzed | Batch |
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | ND | 30 | mg/Kg | 20 | 11/12/2018 11:05:44 AI | A 41467 |
| EPA METHOD 8015M/D: DIESEL RANG | E ORGANICS | | | | Analyst | Irm |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 11/12/2018 11:19:42 A | И 41462 |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 11/12/2018 11:19:42 Al | И 41462 |
| Surr: DNOP | 99.0 | 50.6-138 | %Rec | 1 | 11/12/2018 11:19:42 AI | A 41462 |
| EPA METHOD 8015D: GASOLINE RAN | GE | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 4.4 | mg/Kg | 1 | 11/12/2018 9:38:49 AM | 41447 |
| Surr: BFB | 103 | 73.8-119 | %Rec | 1 | 11/12/2018 9:38:49 AM | 41447 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | NSB |
| Benzene | ND | 0.022 | mg/Kg | 1 | 11/12/2018 9:38:49 AM | 41447 |
| Toluene | ND | 0.044 | mg/Kg | 1 | 11/12/2018 9:38:49 AM | 41447 |
| Ethylbenzene | ND | 0.044 | mg/Kg | 1 | 11/12/2018 9:38:49 AM | 41447 |
| Xylenes, Total | ND | 0.089 | mg/Kg | 1 | 11/12/2018 9:38:49 AM | |
| Surr: 4-Bromofluorobenzene | 116 | 80-120 | %Rec | 1 | 11/12/2018 9:38:49 AM | 41447 |

Analytical Report

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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 | Р | 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 |
| | | | | |

| С | hain- | of-Cus | stody Record | Turn-Around | Time: | SAME | | | | L | | | E | R4 \ | <i>1</i> T T | | 1745 | | INT | r a i | | |
|---|---------|-------------|---------------------------|-------------------------|----------------------|--------------------|------------|-------------|----------------|----------------------------|-----------------|---|---------------------------|---|-----------------|-------------|-----------------|----------------|------|-------------|------------------------|----------------|
| Client: | BLAG | G ENGR. | / BP AMERICA | Standard | Rush | DAY | | | | | | | | | | | | | AT | | | |
| | | | | Project Name | | | | | | | | | | | | | l.con | | | | | |
| Mailing A | ddress: | P.O. BO | X 87 | (| ORNELL A | # 1E | | 49 | 01 H | | | | | | | | | 3710 | 9 | | | |
| | | BLOOM | FIELD, NM 87413 | Project #: | | | 1 | | | | | 975 | | , | | | -410 | | | | | |
| Phone #: | | (505) 63 | 2-1199 | | | | | | | | | 1 | Anal | ysis | Reg | ques | st | | | | | |
| email or F | ax#: | | | Project Manag | jer. | | | | | | | | | (| | | | 1) | | | | |
| QAVQC Par | - | | Level 4 (Full Validation) | | STEVE MO | SKAL | (80218) | only) | MRO) | | | (5) | | O4, SO | PCB's | | | er - 300.1) | | | e | |
| Accreditat | tion: | | | Sampler: | NELSON VE | ELEZ | = 18(| Gas | / DRO / | = | 1) | SIN/ | | 02,1 | / 8082 | | | water | | | hpl | |
| | > | D Other | | On Ice: | Syes | INO 971 | | + TPH (Gas | 0/0 | 118 | 04 | 3270 | | 03,N | s / 8 | | (| 300.0 / | | | e sa | or N) |
| | Type) | | | Sample Temp | erature: 4 | 2 | | + | GRC | od (| , po | or 8 | stals | N'N | cide | A) | 0/-1 | 1 . 1 | | e | osit | (V 01 |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL NO. 811571 | BTEX + MTB | BTEX + MTBE | FPH 8015B (GRO | TPH (Method 418.1) | EDB (Method 504 | PAH (8310 or 82705IMS) | RCRA 8 Metals | Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) | 8081 Pesticides | 8250B (VOA) | 8270 (Semi-VOA) | Chloride (soil | | Grab sample | 5 pt. composite sample | Air Bubbles (Y |
| 11/9/18 | 1215 | SOIL | 5PC-TB@ 5 (95) | 4 oz 1 | Cool | - 001 | V | | ٧ | | | | | | | 1 | | V | | | ٧ | |
| | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | 1 | 1 | | | | | |
| | | | | | | | | | | | | | | | | 1 | 1 | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | - |
| | | | | 1 | | | | | | | | | | | | 1 | 1 | | | | | |
| The Party of the same latter to the same latter | | | | | | | | | | | - | | | | - | - | | | | - | - | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Date: | Time | Relinquishe | ad by: | Received by: | | Date Time | Rem | arks | : | BILL | DIREC | דו א דו | O BP | USING | I 3 THE | CONT | TACTO | S) BELL | ow & | | | |
| "/9/18 | 1310 | 90 | lavf | Ties | care 1 | 10/18 1112 | 0 | ONTA | | - appropriate and a second | | de la constante | port of the second second | | | | | TO BF | EMAI | TOF | ALL. | |
| Date: | Time | Relinquish | ed by. / | Received by | | Date Time | | | | | | | | | | | | | | | | |

| Client: Project: | 00 | Engineering II A 1E | | | | | | |
|---------------------|------------|--------------------------|---------------------|-------------------|-----------------|------|----------|------|
| Sample ID | MB-41467 | SampType: mblk | TestCod | e: EPA Method | d 300.0: Anions | | | |
| Client ID: | PBS | Batch ID: 41467 | RunN | o: 55575 | | | | |
| Prep Date: | 11/12/2018 | Analysis Date: 11/12/201 | 8 SeqN | o: 1851210 | Units: mg/Kg | | | |
| Analyte | | Result PQL SPK v | alue SPK Ref Val %F | EC LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | ND 1.5 | | | | | | |
| Sample ID | LCS-41467 | SampType: Ics | TestCod | e: EPA Method | d 300.0: Anions | | | |
| Client ID: | LCSS | Batch ID: 41467 | RunN | o: 55575 | | | | |
| Prep Date: | 11/12/2018 | Analysis Date: 11/12/201 | 8 SeqN | o: 1851211 | Units: mg/Kg | | | |
| Analyte | | Result PQL SPK v | alue SPK Ref Val %F | EC LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 14 1.5 1 | 5.00 0 9 | 5.8 90 | 110 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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

Page 2 of 5

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WO#: 1811571

13-Nov-18

| Client: Project: | Blagg En Cornell A | 0 0 | | | | | | | | | |
|---------------------|-----------------------|----------------|---------------------|-----------|-------------|----------|-----------|-------------|-----------|------------|------|
| Sample ID | MB-41462 | SampT | ype: ME | BLK | Tes | tCode: E | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: | PBS | Batch | ID: 41 | 462 | F | RunNo: 5 | 55577 | | | | |
| Prep Date: | 11/12/2018 | Analysis D | ate: 1 | 1/12/2018 | S | SeqNo: 1 | 1850744 | Units: mg/M | ٢g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range (| Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Rang | e Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | | 9.1 | | 10.00 | | 90.6 | 50.6 | 138 | | | |
| Sample ID | LCS-41462 | SampT | ype: LC | s | Tes | tCode: E | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: | LCSS | F | RunNo: 55577 | | | | | | | | |
| Prep Date: | 11/12/2018 | Analysis D | ate: 11 | 1/12/2018 | S | SeqNo: 1 | 850745 | Units: mg/M | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range (| Organics (DRO) | 43 | 10 | 50.00 | 0 | 85.3 | 70 | 130 | | | |
| Surr: DNOP | | 4.4 | | 5.000 | | 88.2 | 50.6 | 138 | | | |
| Sample ID | 1811571-001AMS | SampT | ype: MS | 3 | Tes | tCode: E | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: | 5PC-TB @ 5' (95) | Batch | ID: 41 | 462 | F | RunNo: 5 | 55577 | | | | |
| Prep Date: | 11/12/2018 | Analysis D | ate: 1 | 1/12/2018 | S | SeqNo: 1 | 851494 | Units: mg/M | ٢g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range (| Organics (DRO) | 43 | 10 | 49.85 | 5.147 | 75.3 | 53.5 | 126 | | | |
| Surr: DNOP | | 5.1 | | 4.985 | | 102 | 50.6 | 138 | | | |
| Sample ID | 1811571-001AMSI | D SampT | ype: MS | SD | Tes | tCode: E | PA Method | 8015M/D: Di | esel Rang | e Organics | |
| Client ID: | 5PC-TB @ 5' (95) | Batch | ID: 41 | 462 | F | RunNo: 5 | 55577 | | | | |
| Prep Date: | 11/12/2018 | Analysis D | ate: 14 | 1/12/2018 | S | SeqNo: 1 | 851495 | Units: mg/k | ٢g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range (| Organics (DRO) | 46 | 9.6 | 47.94 | 5.147 | 84.8 | 53.5 | 126 | 7.03 | 21.7 | |
| Surr: DNOP | | 4.9 | | 4.794 | | 102 | 50.6 | 138 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range

Sample pH Not In Range

- J Analyte detected below quantitation limits
- Page 3 of 5

RL Reporting Detection Limit

Р

W Sample container temperature is out of limit as specified

| WO#: | 1811571 |
|------|---------|
| | |

Page 4 of 5

13-Nov-18

| Client: Blagg E Project: Cornell | ngineering A 1E | | | | | | | | | | | |
|--|--------------------|-----------|-----------|--|--------------|-----------|-------------|-----------|----------|------|--|--|
| Sample ID MB-41447 | SampT | ype: ME | BLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | |
| Client ID: PBS Batch ID: 41447 | | | | F | RunNo: 55580 | | | | | | | |
| Prep Date: 11/9/2018 Analysis Date: 11/12/2018 SeqNo: 1851079 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 | | 101 | 73.8 | 119 | | | | | |
| Sample ID LCS-41447 | SampT | ype: LC | S | Tes | tCode: El | PA Method | 8015D: Gasc | line Rang | e | | | |
| Client ID: LCSS | Batch | n ID: 414 | 447 | F | RunNo: 5 | 5580 | | | | | | |
| Prep Date: 11/9/2018 | Analysis D | ate: 11 | /12/2018 | S | SeqNo: 1 | 851080 | Units: mg/K | g | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Gasoline Range Organics (GRO) | 27 | 5.0 | 25.00 | 0 | 107 | 80.1 | 123 | | | | | |
| Surr: BFB | 1100 | | 1000 | | 113 | 73.8 | 119 | | | | | |

Qualifiers:

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

Client: Blagg Engineering

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Project: Cornell A 1E

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|----------------------------|---------------------------|---------------------------|-----------|---------------------------------------|----------------|----------|--|--------------|----------|------|
| Sample ID MB-41447 | SampType: MBLK | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
| Client ID: PBS | Batch ID: 41447 | | | RunNo: 55580 | | | | | | |
| Prep Date: 11/9/2018 | Analysis Date: 11/12/2018 | | | S | SeqNo: 1 | 851093 | Units: mg/Kg | | | |
| 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 | | 116 | 80 | 120 | | | |
| Sample ID LCS-41447 | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
| Client ID: LCSS | Batch ID: 41447 | | | RunNo: 55580 | | | | | | |
| Prep Date: 11/9/2018 | Analysis D | Analysis Date: 11/12/2018 | | | SeqNo: 1851094 | | | Units: mg/Kg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.91 | 0.025 | 1.000 | 0 | 91.1 | 80 | 120 | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 95.6 | 80 | 120 | | | |
| Ethylbenzene | 0.95 | 0.050 | 1.000 | 0 | 95.2 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 96.9 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.4 | | 1.000 | | 138 | 80 | 120 | | | S |

Qualifiers:

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

WO#: 1811571 13-Nov-18

Page 5 of 5

| HALL ENVIRONMENTAL ANALYSIS LABORATORY | 111. 303- | Hall Environmental Analysis Laboratory 3001 Haw kins 53 Hougustanie XVI 82445 11 L. 305-143-3972 EAY 503-345-445-445 Webste visiw haifenvironmental.com | | | | Sample Log-In Check List | | | |
|--|---|---|---------------------------|--|---|--------------------------|--|--|--|
| Client Name BLAGG | Work Order | er Number: 1811571 | | | ReptNa: 1 | | | | |
| Received By Isatah Ortiz Completed By Ashley Gallegos | 11/10/2018 11 | | | IGA | | THOMALD'S | | | |
| Completed By Ashley Gatlegos Reviewed By | 11/12/2018 8:3 | | 28/1 | edby | · JAB | 11/012/18 | | | |
| () Chain of Custody | | | | | | | | | |
| 1 Is Chain of Custody complete? | | Yes | V | No | Not Presert | | | | |
| 2. How was the sample derivered? | | Cou | ier | | | | | | |
| Log In | | | | | | | | | |
| Was an attempt made to cool the s | amples / | Yes | V | No | NA LLI | | | | |
| 4, where all samples received at a term | perature of >0° C to 6 0°C |) Yes | V | No 🗌 | NA | | | | |
| 5. Sample(s) in proper containens)? | | Yes | V | No | | | | | |
| Sufficient sample volume for indicat | ed test(s)? | Yes | 1 | No 🗋 | | | | | |
| 7. Are samples (except VOA and ONC | i) property preserved? | Yes | V | No | | | | | |
| 8 Was preservative added to cottles? | | Yera | | No 🗹 | MA I_I | | | | |
| 9 VOA viais have zero headspace? | | Yes | | No C | No VOA Vials 🗹 | a | | | |
| Were any sample containers races | Y⊕ε | | Ng 🗸 | # of preserved | | | | | |
| 11 Does paperwork match bettle labels (Note discrepancies on chain of cus | Yes | ~ | Na | ionities checked for pill. (<2 p | 15/15 unless apred | | | | |
| 2. Are matricles correctly centified on i | Chain of Custody? | Yes | V. | No | Adjusted? | NO | | | |
| 13. Is it clear what analyses were reque | sied? | YES | V | No [] | X | HS | | | |
| Were all holding times able to be million (If no notify customer for authorizat) | 4. Were all holding times able to be mot? (If no polify distance for authorization s | | | No | Checked by.) | 112 | | | |
| Special Handling (if applicable |)) | | | - | | | | | |
| 15. Was client notified of all discrepand | | Ves | | No | NA 🗸 | | | | |
| Person Notified. | (| Date | an a su constanti a compa | | | | | | |
| By Whom | | /ia 🗍 eMa | ni P | hone 🔄 Fax | In Person | | | | |
| Regarding: | | | | n a mana (an 1 - 1 - 1 an ann an | (an angle and an of the faith of the control of grant) provide and a faith of the providence of the providence | | | | |
| Client Instructions | | | | وماقو الموروف المناف المواد المالية الما | | | | | |
| 16. Additional remarks. | | | | | | | | | |
| 17 Gooler Information Cooler No Temp °C Condit | Ion Seal Intact Seal 1 | Vo Seal D | le | Signed By | | | | | |
| 1 4.2 Good | Yes | an a | the system of the second | Alex and a | | | | | |

Yes

Page 1 of 1

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