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 Type of action: Below grade tank registration NMOCD Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method JUN 2 9 2018 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 DISTRICT Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances. Operator: BP America Production Company OGRID #. 778 Address: 200 Energy Court, Farmington, NM 87401 Facility or well name: NEIL LS 020 API Number: 3004523180 OCD Permit Number: County: San Juan U/L or Otr/Otr K Township 32N Range 11W Longitude -107.997557 Center of Proposed Design: Latitude 36.938814 NAD83 Surface Owner: Federal State Private Tribal Trust or Indian Allotment Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no ☐ Lined ☐ Unlined Liner type: Thickness _____mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D TANK A Below-grade tank: Subsection I of 19.15.17.11 NMAC bbl Type of fluid: Produced Water Volume: 45 Tank Construction material: Steel Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off ☐ Visible sidewalls and liner ☐ Visible sidewalls only ■ Other Single wall/ Double bottom; sidewalls not visible Liner type: Thickness mil HDPE PVC Other Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 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)	
7.	
Signs: Subsection C of 19.15.17.11 NMAC	
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.16.8 NMAC	
8.	
<u>Variances and Exceptions</u> : 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 and the second state of the s	otable 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
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.	☐ Yes ☐ No
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)	
- Written confirmation or verification from the municipality; Written approval obtained from the municipality	
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	☐ Yes ☐ No
Society; Topographic map	
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
Delow Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured	☐ Yes ☐ No
from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	
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.)	Yes No
- Topographic map; Visual inspection (certification) of the proposed site	
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	☐ Yes ☐ No
application.	
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock	
watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 No. Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doct attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.1 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 5.17.9 NMAC
11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC	
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doct attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.1 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	15.17.9 NMAC

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	
Instructions: Each sitting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	□ Vog □ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	Yes No

- 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
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
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. Titles:	
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
e-mail address:	the closure report.
e-mail address: Telephone:	the closure report.

Form C-144 Oil Conservation Division Page 5 of 6

Operator Closure Certification:	
	ted with this closure report is true, accurate and complete to the best of my knowledge and cable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature:UTIN garifialos	Date: June 25, 2018
e-mail address: erin.garifalos@bpx.com	Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

NEIL LS 020

API No. 3004523180

Unit Letter K Section 33 T 32N R 11W

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)

- 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
	45 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	< 0.074
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	< 50
Chlorides	US EPA Method 300.0 or 4500B	620	49

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

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

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

C-141 is attached.

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

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

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

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

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

The area has been backfilled and BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed when 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 BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed when 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 BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed when 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 BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed when 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 BGT location's surface condition is clear, but within the site's operational area. The location will be reclaimed when the well is plugged and abandoned.
- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following:
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation.

Closure report on C-144 form is included including photos of reclamation completion.

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

Certification section of C-144 has been completed.

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

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised April 3, 2017

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

OPERATOR	Release Notific	eation	n and Co	rrective A	ction	l			
Address 200 Energy Court, Farmington, NM 87401 Telephone No. (832) 609-7048 Facility Type: Natural Gas Well Surface Owner: Federal Mineral Owner: Federal API No. 3004523180 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the North/South Line Feet from the Latitude Gas 938814 Longitude -107.997557 NAD83 NATURE OF RELEASE Type of Release:: none Volume of Release:: unknown Date and Hour of Occurrence: Date and Hour of Discovery: n/a Was Immediate Notice Given? Yes No Not Required By Whom? Was a Watercourse Reached? Yes No Not Required Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal. Soil analysis resulted for Chlorides, BTEX, and TPH below BGT closure standards. Field reports and laboratory results are attached. Describe Area Affected and Cleanup Action Taken.* No action necessary. Final laboratory analysis determined no remedial action is required. Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform correctives which may endanger public health or the environment. The acceptance of a C-141 report does not refleve the operations for releases which may endanger public health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operation for relieve the operation of responsible or refleve the operation of responsible and or regulations. OLICONSFRVATION DIVISION			OPERA	ΓOR		Initia	al Report		Final Report
Surface Owner; Federal Mineral Owner; Federal Mineral Owner; Federal API No. 3004523180					70.40				
Mineral Owner; Federal Mineral Owner; Federal API No. 3004523180						II			
Unit Letter Section Township Range Feet from the North/South Line Feet from the Lastitude 33.2N 11W 1,710 South 1,630 West San Juan Latitude 36.938814 Longitude 107.997557 NAD83									
Unit Letter K 33	Surface Owner: Federal Mineral C)wner:	Federal			API No	.3004523	3180	
Latitude 36.938814 Longitude -107.997557 NAD83 NATURE OF RELEASE Type of Release:: none Source of Release:: none Source of Release:: below grade tank - 45 bbl Was Immediate Notice Given? Was a Watercourse Reached? Was a Watercourse Reached? Was a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal. Soil analysis resulted for Chlorides, BTEX, and TPH below BGT closure standards. Field reports and laboratory results are attached. Describe Area Affected and Cleanup Action Taken.* No action necessary. Final laboratory analysis determined no remedial action is required. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. Oli CONSERVATION DIVISION				LEASE					
Latitude 36.938814 Longitude 107.997557 NAD83						010	Lucia		
Type of Release:; none Volume of Release:; unknown Volume Recovered:; N/A Source of Release: below grade tank - 45 bbl Date and Hour of Occurrence: n/a Date and Hour of Discovery: n/a Was Immediate Notice Given? If YES, To Whom? If YES, To Whom? By Whom? Date and Hour By Whom? Date and Hour Was a Watercourse Reached? Yes	K 33 32N 11W 1,710	Sou	uth	1,630	We	st	5	an	Juan
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Signature:	Signature:								
Printed Name: Erin Garifalos Approved by Environmental Specialist:	Signature: Printed Name: Erin Garifalos		Approved by	Environmental S ₁	pecialist	:			
Title: Field Environmental Coordinator Approval Date: Expiration Date:			Approval Dat	e.	1	Expiration I	Date:		
orin garifolos@hpy.com						piration i			
E-mail Address: eTITI.garifatos & Dpx.Coffi Date: June 25, 2018 Phone: (832) 609-7048 Attached Attached			Conditions of	Approvat:			Attached		

^{*} Attach Additional Sheets If Necessary

bp



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

May 7, 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: NEIL LS 020 API# - 3004523180

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

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

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

Sincerely,

Erin Garifalos

BP America Production Company

From:

Buckley, Farrah (CH2M HILL)

To:

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

Cc:

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

Subject: Date:

BP Pit Close Notification - NEIL LS 020

Monday, May 07, 2018 2:46:34 PM

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

May 7, 2018

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

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

> NEIL LS 020 API# 30-45-23180 (L) Section 33 - T32N - R11W 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 45bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around May 11, 2018.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator - San Juan

Cell: 832-609-7048

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

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

CLIENT: BP	(505) 632-1199 DREPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:		7413	API #: 300452	23180 A
				(if applicble):	^
FIELD REPORT:	(circle one): BGT CONFIRMATION	RELEASE INVESTIGATION / OTHER		PAGE #: 1	of 1
SITE INFORMATION	I: SITE NAME: NEIL L	S # 20		DATE STARTED: 0	5/11/18
QUAD/UNIT: K SEC: 33 TWP:	32N RNG: 11W PM:	NM CNTY: SJ S	T: NM	DATE FINISHED:	
1/4-1/4/FOOTAGE: 1,710'S / 1,63		TYPE: FEDERAL STATE / FEE	/ INDIAN	ENVIRONMENTAL	NI D.
LEASE #: SF078051	PROD. FORMATION: PC C	ONTRACTOR: BP - J. GONZ	ALES	SPECIALIST(S):	NJV
REFERENCE POINT	()			GL ELEV.:	
1) 45 BGT (SW/DB)	GPS COORD.: 36.	938814 X 107.997557	DISTANCE/BEA	RING FROM W.H.: 20', I	N68.5E
2)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
3)					
	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	OVM
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # (904	15B/8021B/300.0 (CI)	READING (ppm)
1) SAMPLE ID: 5PC - TB @ 5'	(45) SAMPLE DATE: U5/17		NALYSIS:	15B/8021B/300.0 (CI)	NA
3) SAMPLE ID:			NALYSIS:		
4) SAMPLE ID:		SAMPLE TIME: LAB AN			
SOIL DESCRIPTION	SAMPLE DATE:	SAMPLE TIME: LAB AN			
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LO MOISTURE: DRY / SLIGHTLY MOIST / MOIST / W SAMPLE TYPE: GRAB COMPOSITE + DISCOLORATION/STAINING OBSERVED: YES N SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE	DOSE FIRM DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED # OF PTS. 5 IO EXPLANATION - LOST INTEGRITY OF EQUIPMENT): SOFT/FIRM/ ANATION -	STIFF / VERY STIFF / HARD	IIGHLY PLASTIC
EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD REP. PRESENT TO WIT	YES NO EXPLANATION -				
EXCAVATION DIMENSION ESTIMATION:	NA ft. X NA	ft. X NA ft. EX	CAVATION EST	ΠΜΑΤΙΟΝ (Cubic Yards) :	NA
	IEAREST WATER SOURCE: >1,000	NEAREST SURFACE WATER:	200' NMOC	CD TPH CLOSURE STD:	100 ppm
SITE SKETCH	BGT Located: off on sit	e PLOT PLAN circle:	attached	CALIB. READ. = NA	_ppm RF =1.00
			f ovm	CALIB. GAS = NA	ppm
			N TIME	: NA am/pm DATE:	NA
METER RUN			'[MISCELL. NO	OTES
	FENCE		_	/O:	
	Ĭ Š			EF#: P-967	20
	PBC (xxx) ◀ T.B.			ID: VHIXONEVE J#:	32
	B.				/14/10
	W.H. \oplus			CD Appr. date(s): 04	/01/16
	BERM		Tar ID	OVM = Organic Vapor ppm = parts per millio	n
			A	BGT Sidewalls Visible: Y	' /N
		Χ -	S.P.D.	BGT Sidewalls Visible: Y	
		POINT DESIGNATION; R.W. = RETAINING WALL;		BGT Sidewalls Visible: Yagnetic declination:	
NOTES: GOOGLE FARTH IMAG	FRY DATE: 3/15/2015	ONIGITE: 05/11/18			

revised: 11/26/13 BEI1005E-6.SKF

Analytical Report

Lab Order 1805700

Date Reported: 5/16/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC -TB @ 5' (45)

Project: Neil LS 20

Collection Date: 5/11/2018 9:30:00 AM

Lab ID: 1805700-001

Matrix: MEOH (SOIL) Received Date: 5/12/2018 7:40:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	49	30	mg/Kg	20	5/14/2018 12:02:10 PM	38091
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/14/2018 9:40:28 AM	38088
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/14/2018 9:40:28 AM	38088
Surr: DNOP	99.7	70-130	%Rec	1	5/14/2018 9:40:28 AM	38088
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	5/14/2018 9:37:08 AM	38079
Surr: BFB	90.1	15-316	%Rec	1	5/14/2018 9:37:08 AM	38079
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.018	mg/Kg	1	5/14/2018 9:37:08 AM	38079
Toluene	ND	0.037	mg/Kg	1	5/14/2018 9:37:08 AM	38079
Ethylbenzene	ND	0.037	mg/Kg	1	5/14/2018 9:37:08 AM	38079
Xylenes, Total	ND	0.074	mg/Kg	1	5/14/2018 9:37:08 AM	38079
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	5/14/2018 9:37:08 AM	38079

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

C	hain-c	of-Cus	stody Record	Turn-Around	Time:	SAME					AL		E	NI	/TE	20	RI F	ЧE	3.17	ra.	
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	☑ Rush _	DAY)												R/			
				Project Name																	
Mailing A	ddress:	P.O. BO	X 87	1	NEIL LS #	20	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109														
	-		FIELD, NM 87413	Project #:			1												,		
Phone #:		(505) 63		Tel. 505-345-3975 Fax 505-345-410						17											
email or F	ax#:	(303) 03		Project Manag	Jer.		\$5° 0		1000				liai	100000		1400			1000		
QA/QC Pa				T rojoot manag			_		5					304)	S'S			300.1)			
☑ Standa			Level 4 (Full Validation)		ERIN GARI	FALOS	(8021B)	only)	MRO)			(S		0,5	PCB's						0)
Accreditat	tion:		,	Sampler:	NELSON VI	LEZ	18(8)	TPH (Gas	80/	1)	1)	SIM		O ₂ ,F	3082			water			mple
□ NELAP	·	□ Other		On ice:	₩ Yes	□ No ?TV	1	PH	0/0	118.	504.	3270		N,EC	8/s		(A)	0.00			e sa
□ EDD (1	Гуре)			Sample Temp	erature: 30)	03(cF)=3:W	1	+	(GRC	po	po	or	tals	N,	cide	F	-VC	il - 3(ele	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1806 7.00	BTEX +NHB	BTEX + MTBE	TPH 8015B (GRO / DRO	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	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 /		Grab sample	5 pt. composite sample
5/4/18	0936	SOIL	5PC-TB@ 5 ' (45)	4 oz 1	Cool	-001	٧		٧				(4)					٧			٧
																			7	7	
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Hall Environmental Analysis Laboratory, Inc.

WO#:

1805700 16-May-18

Client:

Blagg Engineering

Project:

Neil LS 20

Sample ID MB-38091

SampType: mblk Batch ID: 38091 TestCode: EPA Method 300.0: Anions

Client ID: PBS

RunNo: 51247

Prep Date: 5/14/2018 Analysis Date: 5/14/2018 PQL

SeqNo: 1666509

Units: mg/Kg

Analyte

%RPD

%RPD

HighLimit

RPDLimit Qual

Chloride

ND 1.5

Sample ID LCS-38091

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 38091

Result

RunNo: 51247

Units: mg/Kg

Prep Date: 5/14/2018 Analysis Date: 5/14/2018

SeqNo: 1666510

SPK value SPK Ref Val %REC LowLimit

Analyte

1.5

SPK value SPK Ref Val %REC HighLimit

RPDLimit Qual

Result

15.00

90.9

90

110

Chloride 14

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

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

Page 2 of 6

Client:

Project:

Client ID:

Prep Date:

Sample ID MB-38088

PBS

5/14/2018

QC SUMMARY REPORT

Blagg Engineering Neil LS 20

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

Batch ID: 38088

Analysis Date: 5/14/2018

WO#:

TestCode: EPA Method 8015M/D: Diesel Range Organics

Units: mg/Kg

RunNo: 51235

SegNo: 1665522

1805700

16-May-18

SPK value SPK Ref Val %REC LowLimit Analyte Result PQL HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.9 10.00 98.9 70 130 SampType: LCS Sample ID LCS-38088 TestCode: EPA Method 8015M/D: Diesel Range Organics LCSS Batch ID: 38088 Client ID: RunNo: 51235 Prep Date: 5/14/2018 Analysis Date: 5/14/2018 SeqNo: 1665523 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 46 10 50.00 0 92.0 70 130 Surr: DNOP 4.6 5.000 924 70 130 Sample ID 1805700-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: 5PC -TB @ 5' (45) Batch ID: 38088 RunNo: 51235 Prep Date: 5/14/2018 Analysis Date: 5/14/2018 SeqNo: 1665813 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Diesel Range Organics (DRO) 37 74.4 10 49.90 55.8 125 Surr: DNOP 5.4 4.990 107 70 130 Sample ID 1805700-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: 5PC -TB @ 5' (45) Batch ID: 38088 RunNo: 51235 Prep Date: 5/14/2018 Analysis Date: 5/14/2018 SeqNo: 1665814 Units: mg/Kg Result SPK value SPK Ref Val %RPD Analyte PQL %REC LowLimit HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) 43 9.9 49.60 0 87.6 55.8 125 15.7 20 Surr: DNOP 5.6 4.960 114 70 130 0 0 Sample ID MB-38056 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 38056 RunNo: 51235 Prep Date: 5/10/2018 Analysis Date: 5/14/2018 SeqNo: 1666875 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC %RPD I owl imit HighLimit RPDI imit Qual

Qualifiers:

Analyte

Surr: DNOP

Client ID:

Prep Date:

Sample ID LCS-38056

LCSS

5/10/2018

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

11

Result

SampType: LCS

Batch ID: 38056

Analysis Date: 5/14/2018

10.00

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

107

RunNo: 51235

SeqNo: 1666887

70

130

TestCode: EPA Method 8015M/D: Diesel Range Organics

Units: %Rec

%RPD

HighLimit

J Analyte detected below quantitation limits

Page 3 of 6

RPDLimit

Qual

P Sample pH Not In Range

SPK value SPK Ref Val %REC LowLimit

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1805700

16-May-18

Client:

Blagg Engineering

Project:

Neil LS 20

Sample ID LCS-38056

SampType: LCS

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS

Batch ID: 38056

RunNo: 51235

Prep Date: 5/10/2018 Analysis Date: 5/14/2018

SeqNo: 1666887

Units: %Rec

Analyte

Result PQL

SPK value SPK Ref Val %REC

LowLimit

HighLimit

RPDLimit

Qual

Surr: DNOP

5.0

5.000

99.8

70

130

%RPD

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank B

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1805700

16-May-18

Client:

Blagg Engineering

Project:

Neil LS 20

Project: Neil LS	20			
Sample ID MB-38079	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Rang	e
Client ID: PBS	Batch ID: 38079	RunNo: 51246		
Prep Date: 5/11/2018	Analysis Date: 5/14/2018	SeqNo: 1666086	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	930 1000	93.4 15	316	
Sample ID LCS-38079	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Rang	e
Client ID: LCSS	Batch ID: 38079	RunNo: 51246		
Prep Date: 5/11/2018	Analysis Date: 5/14/2018	SeqNo: 1666087	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	26 5.0 25.00	0 104 75.9	131	
Surr: BFB	1000 1000	105 15	316	
Sample ID MB-38083	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Rang	e
Client ID: PBS	Batch ID: 38083	RunNo: 51246		
Prep Date: 5/12/2018	Analysis Date: 5/14/2018	SeqNo: 1666100	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	890 1000	89.4 15	316	
Sample ID LCS-38083	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	e
Client ID: LCSS	Batch ID: 38083	RunNo: 51246		
Prep Date: 5/12/2018	Analysis Date: 5/14/2018	SeqNo: 1666101	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	970 1000	97.2 15	316	

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

Page 5 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1805700

16-May-18

Client:

Blagg Engineering

Project: Neil LS	20								
Sample ID MB-38079	SampType: M	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch ID: 38	3079	F	RunNo: 5	1246				
Prep Date: 5/11/2018	Analysis Date: 5	/14/2018	S	SeqNo: 1	666130	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND 0.025								
Toluene	ND 0.050								
Ethylbenzene	ND 0.050								
Xylenes, Total	ND 0.10								
Surr: 4-Bromofluorobenzene	1.1	1.000		106	80	120			
Sample ID LCS-38079	SampType: Lo	cs	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID: 38	8079	F	RunNo: 5 ′	1246				
Prep Date: 5/11/2018	Analysis Date: 5	/14/2018	8	SeqNo: 10	666140	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94 0.025	1.000	0	94.3	77.3	128			
Toluene	0.97 0.050		0	97.3	79.2	125			
Ethylbenzene	0.96 0.050		0	95.7	80.7	127			
Xylenes, Total	2.9 0.10		0	98.3	81.6	129			
Surr: 4-Bromofluorobenzene	1.1	1.000		107	80	120			
Sample ID MB-38083	SampType: M	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch ID: 38	8083	F	RunNo: 5	1246				
Prep Date: 5/12/2018	Analysis Date: 5	/14/2018	S	SeqNo: 10	666147	Units: %Red	:		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		101	80	120			
Sample ID LCS-38083	SampType: Lo	cs	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID: 38	8083	F	RunNo: 5	1246				
Prep Date: 5/12/2018	Analysis Date: 5	/14/2018	S	SeqNo: 16	666148	Units: %Red	:		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

H Holding times for preparation or analysis exceeded

1.1

1.000

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

Surr: 4-Bromofluorobenzene

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Value above quantitation range

106

80

120

J Analyte detected below quantitation limits Page 6 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified



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

L: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

RcptNo: 1 Client Name: BLAGG Work Order Number: 1805700 5/12/2018 7:40:00 AM Received By: **Ashley Gallegos** Completed By: Ashley Gallegos 5/12/2018 8:02:02 AM Labeled Reviewed By: Chain of Custody Yes 🗸 No 🗌 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In No 🗌 NA 🗌 Yes 🗸 3. Was an attempt made to cool the samples? NA [] Yes 🗸 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 5. Sample(s) in proper container(s)? Yes 🗸 No 6. Sufficient sample volume for indicated test(s)? No 🗌 **V** 7. Are samples (except VOA and ONG) properly preserved? NA 🗌 No V 8. Was preservative added to bottles? No VOA Vials No Yes 9. VOA vials have zero headspace? No 🗸 Yes 10. Were any sample containers received broken? # of preserved bottles checked for pH: Yes 🗸 No 🗌 11. Does paperwork match bottle labels? 42013 unless noted) (Note discrepancies on chain of custody) Yes 🗸 No L 12. Are matrices correctly identified on Chain of Custody? Yes V 13. Is it clear what analyses were requested? No No 🗌 Checked by Yes 🗸 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No NA 🗸 15. Was client notified of all discrepancies with this order? Person Notified: Date eMail Phone Fax In Person By Whom: Via: Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date 3.6 Good



