State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505



APR 0 3 2018 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 Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Decrator: BP America Production Company OGRID #: 778
Operator: BP America Production Company OGRID #: 778 Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: LUDWICK LS 012
API Number: 3004509293 OCD Permit Number: U/L or Qtr/Qtr N Section 19 Township 30N Range 10W County: San Juan Section 19 Section Section
Center of Proposed Design: Latitude 36.79299 Longitude -107.92893 NAD83
Surface Owner: 🔲 Federal 🗌 State 🗌 Private 🗌 Tribal Trust or Indian Allotment
 2. Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3. TANK A Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A Volume: 95 bbl Type of fluid: Produced Water
Tank Construction material: Steel 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 visible
Liner type: Thicknessmil
 4. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
5. Examine Schertin D-610151711 NMAC (dealing to the terms of
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital,
 institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify

Oil Conservation Division

 ^{6.} 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. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 	
9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptation acceptation and the application of the	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank	□ Yes □ No □ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No

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

12. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are
13. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
 Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. If 19.15.17.10 NMAC for guidance.	
 Ground water is less than 25 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	□ Yes □ No □ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
 Ground water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	□ Yes □ No □ NA
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	87
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adopted pursuant to NMSA 1978, Section 3-27-3, as amended. V - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No
Within a 100-year floodplain. - FEMA map	Yes No
 ^{16.} On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure play a check mark in the box, that the documents are attached. 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 canned 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 Siel Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	11 NMAC 15.17.11 NMAC
 17. Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli 	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	1/2018
 19. <u>Closure Report (required within 60 days of closure completion)</u>: 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 2/8/2018 	
 20. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-lo If different from approved plan, please explain. 	op systems only)
21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please intermark 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 for private land only) 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 36.79299 Longitude -107.92893	dicate, by a check

Oil Conservation Division

22. Operator Closure Certification:

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

Name (Print): Erin Garifalos

Signature:

Title: Field Environmental Coordinator

vin garifalos

Date: March 30, 2018

e-mail address: erin.garifalos@bp.com

Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

LUDWICK LS 012

API No. 3004509293

Unit Letter N Section 19 T 30N R 10W

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
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.019
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	<48
Chlorides	US EPA Method 300.0 or 4500B	620	<30

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

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

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

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

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

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

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report. 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 a 105-bbl shallow low profile above-grade tank set atop the BGT location. 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 a 105-bbl shallow low profile above-grade tank set atop the BGT location. 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 a 105-bbl shallow low profile above-grade tank set atop the BGT location. 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 a 105-bbl shallow low profile above-grade tank set atop the BGT location. 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 a 105-bbl shallow low profile above-grade tank set atop the BGT location. 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.

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised April 3, 2017

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

Release Notification and Corrective Action

						OPERA	ГOR		🗌 Initia	al Report		Final Report
				tion Compan	y I		n Garifalos					
				on, NM 87401			No. (832) 609-					
Facility Nan	neLUDW	/ICK LS 01	2		1	Facility Typ	e: Natural Ga	as We	ell			
Surface Own	ner: Fed	eral		Mineral C)wner:	Federal			API No	.300450	9293	}
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/	West Line	County		
N	19	30N	10W	990	Sou	ıth	1,550	We	st	S	an	Juan
			Latituc	e ^{36.79299}	Lo	ongitude -1	07.92893	NAD	83			
				NAT	URE	OF REL	EASE					
Type of Relea	ase:: none)					Release: : unkno			lecovered::		
Source of Rel	ease: belo	w grade ta	nk - 95	bbl		Date and H	lour of Occurrenc	e:	Date and n/a	Hour of Dise	covery:	
Was Immedia		Given?		No 🗌 Not Ro	equired	If YES, To	Whom?					
By Whom?					quirea	Date and H	lour					
Was a Watero	ourse Read	ched?					lume Impacting t	the Wat	ercourse.			
			Yes 🗸	No			1 0					
If a Watercou	rse was Im	pacted, Descri	ibe Fully.'	c								
Describe Cau	se of Proble	em and Remed	dial Action	Taken.* Samu		of the soil	beneath the	RGT	was do	no durin	a ron	oval
					0		d for Chlorid				0	
							Field reports	-				
					10 314	nuarus. r	ielu reports	anu i	aborator	yresuits		attacheu.
Describe Area	a Affected a	and Cleanup A	Action Tak	No furth	er acti	ion requir	ed. Final la	borate	ory anal	ysis atta	ched	
										,		
regulations all public health should their o	l operators or the envir perations h	are required to ronment. The ave failed to a	o report ar acceptance dequately	is true and comp d/or file certain r e of a C-141 repo investigate and r tance of a C-141	elease no ort by the emediate	otifications and NMOCD mage contaminati	nd perform correct arked as "Final Roon that pose a three	ctive act eport" c eat to g	ions for rele loes not reli round water	eases which eve the oper , surface wa	may en ator of ter, hui	danger liability nan health
federal, state,												
l	ring	wifalo	4				OIL CON	SERV	ATION	DIVISIO	N	
						Approved by	Environmental S	pecialis	t:			
Printed Name												
Title: Field	Enviro	onmenta	I Coo	rdinator	1	Approval Dat	e:		Expiration I	Date:		
E-mail Addres	ss: erin.	garifalos	@bp.	com	(Conditions of	Approval:			Attached		
Date March	30, 201	18	Phone	(832) 609-70)48							

* Attach Additional Sheets If Necessary



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

February 2, 2018

bp

,1

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: LUDWICK LS 012 API #: 3004509293

Dear Mrs. Thomas,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about February 5, 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:	RE: BP Pit Close Notification - LUDWICK LS 012
Date:	Friday, February 02, 2018 4:31:08 PM

The BGT on this location will be closed Monday at 3pm.

Thanks.

Farrah

From: Buckley, Farrah (CH2M HILL)
Sent: Friday, February 02, 2018 10:50 AM
To: 'Smith, Cory, EMNRD'; 'Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)'
Cc: 'jeffcblagg@aol.com'; 'blagg_njv@yahoo.com'; Garifalos, Erin
Subject: BP Pit Close Notification - LUDWICK LS 012

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

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

February 2, 2018

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

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

LUDWICK LS 012 API 30-045-09293 (N) Section 19 – T30N – R10W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around February 5, 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.

CLIENTE BP	BLAGG E P.O. BOX 87, B	API #: 3004509	293		
CLIENT:	P.O. BOX 87, B	TANK ID (if applicble):			
FIELD REPORT:	(circle one): BGT CONFIRMATION	RELEASE INVESTIGATION / OTHE	R:	PAGE #: _1_ of	1
SITE INFORMATION	SITE NAME: LUDW	CK LS #12		DATE STARTED: 02/0	5/18
QUAD/UNIT: N SEC: 19 TWP:			ST: NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 990'S / 1,55	SE/SW LEASE T	TYPE: FEDERAL STATE / FE	E / INDIAN	ENVIRONMENTAL	
		CTDIVE		SPECIALIST(S):	В
REFERENCE POINT	WELL HEAD (W.H.) GPS	COORD.: 36.79269 X	(107.92856	GL ELEV.: 6,	213'
1) 95 BGT (SW/DB)	GPS COORD.: 36	.79299 X 107.92893	DISTANCE/BEAR	RING FROM W.H.: 138', N4	7.5W
2)	GPS COORD.:		DISTANCE/BEAF	RING FROM W.H.:	
3)	GPS COORD .:		DISTANCE/BEAF	RING FROM W.H.:	
4)	GPS COORD .:		DISTANCE/BEAF	RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # C	DR LAB USED: HALL			OVM READING
	02/05 sample date: 02/05		ANALYSIS: 801	5B/8021B/300.0 (CI)	(ppm) 0.0
2) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB /	ANALYSIS:		
3) SAMPLE ID:					
4) SAMPLE ID: 5) SAMPLE ID:					
SOIL DESCRIPTION					
SOIL COLOR: DARK YEL COHESION (ALL OTHERS): NON COHESIVE [SLIGHTL		PLASTICITY (CLAYS): NON PLASTIC / SL DENSITY (COHESIVE CLAYS & SILT:			Y PLASTIC
CONSISTENCY (NON COHESIVE SOILS): LC		HC ODOR DETECTED: YES NO EXP			
MOISTURE: DRY / SLIGHTLY MOIST / MOIST / W					
SAMPLE TYPE: GRAB COMPOSITE +		ANY AREAS DISPLAYING WETNESS:	YES NO EXPLAN	ATION -	
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE					
EQUIPMENT SET OVER RECLAIMED AREA:			O BE SET ATOP	BGT LOCATION.	
OTHER:					
EXCAVATION DIMENSION ESTIMATION:	NA ft. X NA	ft. X NA ft. E	XCAVATION EST	IMATION (Cubic Yards) :	NA
(EAREST WATER SOURCE: >1,000			D TPH CLOSURE STD: 1,00	
SITE SKETCH	BGT Located : off on site		attached	CALIB. READ. = 100.1 ppn	
PROD.					
TANK				CALIB. GAS = <u>100</u> ppn : <u>9:05</u> (am)pm DATE: <u>0</u> 2	2/05/18
Ý	\ \				
	STEEL			MISCELL. NOT	ES
$\begin{array}{c} PBGTL \\ T.B. \sim 5' \longrightarrow \begin{pmatrix} \widehat{\mathbf{x}} \\ \mathbf{x} \\ \mathbf{x} \end{pmatrix} \end{array}$				/0:	
B.G.	Ring			EF #: P-924	
				ID: VHIXONEVB2	
SEPA	RATOR			J #: ermit date(s): 06/09	/10
				ermit date(s): 06/09 CD Appr. date(s): 04/08	
			Tan	oVM = Organic Vapor Met	
				BGT Sidewalls Visible:(Y)	N
	₩.H. ⊕	Y	S.P.D.	BGT Sidewalls Visible: Y / N	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO				BGT Sidewalls Visible: Y / N	4
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW - SINGLI	OW-GRADE TANK LOCATION; SPD = SAMPLE F	POINT DESIGNATION; R.W. = RETAINING WALL		lagnetic declination: 10	°Е
NOTES: GOOGLE EARTH IMAG		ONSITE: 02/05/18			

revised: 11/26/13

BEI1005E-6.SKF

Anal	lytical	Report	

Lab Order 1802230

Date Reported: 2/8/2018

Hall Environmental Analysis Laboratory, Inc.

ġ,

CLIENT: Blagg Engineering Project: LUDWICK LS 12			-		BGT 5-pt @ 5' 5/2018 3:01:00 PM	
Lab ID: 1802230-001	Matrix: S	SOIL			5/2018 7:30:00 AM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	2/6/2018 11:51:49 AM	36368
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	AG
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	2/6/2018 10:54:28 AM	G48925
Surr: BFB	116	70-130	%Rec	1	2/6/2018 10:54:28 AM	G48925
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/6/2018 10:03:43 AM	36366
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/6/2018 10:03:43 AM	36366
Surr: DNOP	98.4	70-130	%Rec	1	2/6/2018 10:03:43 AM	36366
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	AG
Benzene	ND	0.019	mg/Kg	1	2/6/2018 10:54:28 AM	R48925
Toluene	ND	0.037	mg/Kg	1	2/6/2018 10:54:28 AM	R48925
Ethylbenzene	ND	0.037	mg/Kg	1	2/6/2018 10:54:28 AM	R48925
Xylenes, Total	ND	0.074	mg/Kg	1	2/6/2018 10:54:28 AM	R48925
Surr: 4-Bromofluorobenzene	122	70-130	%Rec	1	2/6/2018 10:54:28 AM	R48925
Surr: Toluene-d8	113	70-130	%Rec	1	2/6/2018 10:54:28 AM	R48925

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

*	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
	H ND	 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 	DSample Diluted Due to MatrixEHHolding times for preparation or analysis exceededJNDNot Detected at the Reporting LimitPPQLPractical Quanitative LimitRL

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Project: LUDWICK LS 12

Sample ID MB-36368	SampType: mblk	300.0: Anions							
Client ID: PBS	Batch ID: 36368	RunNo: 48924							
Prep Date: 2/6/2018	Analysis Date: 2/6/2018	SeqNo: 1575789	Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Chloride	ND 1.5								
	112 110								
Sample ID LCS-36368	SampType: Ics	TestCode: EPA Method	300.0: Anions						
		TestCode: EPA Method RunNo: 48924	300.0: Anions						
Sample ID LCS-36368	SampType: Ics		300.0: Anions Units: mg/Kg						
Sample ID LCS-36368 Client ID: LCSS	SampType: Ics Batch ID: 36368 Analysis Date: 2/6/2018	RunNo: 48924		RPDLimit Qual					

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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#: **1802230**

08-Feb-18

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering **Project:** LUDWICK LS 12

Sample ID LCS-36366	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	ID: 36	366							
Prep Date: 2/6/2018	Analysis D	Analysis Date: 2/6/2018 SeqNo: 1574281 U						٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.8	70	130			
Surr: DNOP	4.4		5.000		87.9	70	130			
Sample ID MB-36366	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 36	366	F	RunNo: 4	8919				
Prep Date: 2/6/2018	Analysis D	ate: 2/	6/2018	S/2018 SeqNo: 1574282 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Notor Oil Range Organics (MRO)	ND	50								

Qualifiers:

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

Page 3 of 5

WO#: 1802230

08-Feb-18

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering **Project:** LUDWICK LS 12

Sample ID 100ng Ics	SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List												
Client ID: BatchQC	Batch	8925	F										
Prep Date:	Analysis D	ate: 2/	6/2018	S	SeqNo: 1	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.92	0.025	1.000	0	92.2	80	120						
Toluene	1.0	0.050	1.000	0	103	80	120						
Ethylbenzene	1.0	0.050	1.000	0	104	80	120						
Xylenes, Total	3.0	0.10	3.000	0	101	80	120						
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.7	70	130						
Surr: Toluene-d8	0.56		0.5000		111	70	130						
Sample ID rb	SampT	уре: МЕ	3LK	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List				
Client ID: PBS	Batch	n ID: R4	8925	F	RunNo: 4	8925							
Prep Date:	Analysis D	ate: 2/	6/2018	5	SeqNo: 1	574361	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	0.57		0.5000		113	70	130						
Surr: Toluene-d8													
Surr. Toluene-do	0.55		0.5000		109	70	130						

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- 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
- Analyte detected below quantitation limits J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 4 of 5

WO#: 1802230

08-Feb-18

WO#: 1802230

08-Feb-18

Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:LUDWICK LS 12

Sample ID 2.5ug gro Ics	gro Ics SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID: LCSS	Batch	Batch ID: G48925 RunNo: 48925								
Prep Date:	Analysis Date: 2/6/2018 SeqNo: 1574354 Un					Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.3	70	130			
Surr: BFB	480		500.0		95.5	70	130			
Sample ID rb SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range										
Sample ID rb	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Sample ID rb Client ID: PBS		ype: ME			tCode: El		8015D Mod:	Gasoline	Range	
		1D: G4	8925	F		8925	8015D Mod: Units: mg/k		Range	
Client ID: PBS	Batch	1D: G4	8925 6/2018	F	aunNo: 4	8925			Range RPDLimit	Qual
Client ID: PBS Prep Date:	Batch Analysis D	ate: 2/	8925 6/2018	F	RunNo: 4 SeqNo: 1	8925 574355	Units: mg/M	ζg	U U	Qual

Qualifiers:

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

Page 5 of 5

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Alb TEL: 505-345-3975 Website: www.hu	490 uquero 5 FAX:	01 Hawkin que, NM 82 505-345-4	s NE 7109 Sa 4107	Sample Log-In Check List									
Client Name: BLAGG	Work Order Number	: 180	2230		RcptNo: 1									
Received By: Anne Thome	2/6/2018 7:30:00 AM			Anne J										
Completed By: Anne Thorne	2/6/2018 8:28:27 AM			ame 1	han									
Reviewed By: DDS	216/18													
<u>Chain of Custody</u> 1. Is Chain of Custody complete?	•	Yes	>	No 🗆	Not Present									
2. How was the sample delivered?		Cou	rier											
Log in 3. Was an attempt made to cool the sample	s?	Yes		No 🗌										
4. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes		No 🗌	NA 🗆									
5. Sample(s) in proper container(s)?		Yes		No 🗌										
6. Sufficient sample volume for indicated tes	t(s)?	Yes		No 🗌										
7. Are samples (except VOA and ONG) prop	erly preserved?	Yes	\checkmark	No 🗌										
8. Was preservative added to bottles?		Yes		No 🗹	NA 🗆									
9. VOA vials have zero headspace?		Yes		No 🗌	No VOA Vials									
10. Were any sample containers received bro	ken?	Yes		No 🗹										
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗌	# of preserved bottles checked for pH: (<2 or >12	unless noted)								
12. Are matrices correctly identified on Chain	of Custody?	Yes	\checkmark	No 🗌	Adjusted?									
13. Is it clear what analyses were requested?			\checkmark	No 🗌										
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No 🗌	Checked by:									
Special Handling (if applicable)														
15. Was client notified of all discrepancies with	th this order?	Yes		No 🗌	NA 🗹									
Person Notified: By Whom: Regarding:	Date J Via:	eM	ail 🗌 P	hone 🗌 Fa	x In Person									
Client Instructions:	เลสสารระชาวออื่อสอาสสารสารสารหลาง			N ^{III} III AMARAMANINA	an a									
16. Additional remarks:														
	Seal Intact Seal No S	Seal D	ate 🔬	Signed By										

С	hain-	of-Cu	stody Record	Turn-Around									-			-				E	
Client:	Client: BP AMERICA			□ Standard	HALL ENVIRONMENTAL																
				□ Standard XRush SAME DAF Project Name:																	
Mailing	BLAGG ENGINEERING INC. Mailing Address:			LUDI	ulck LS	5 12	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109														
				Project #:			Tel. 505-345-3975 Fax 505-345-4107														
Phone #: (\$05) 320 -1183				×.		Analysis Request															
email or				Project Mana	ger:																
				ERIN	GARIFAL	05	TMB's (8021)	as or	/ DRO / MRO)			SIMS)		O4,SC	PCB's						
Accredit			Level 4 (Full Validation)	Sampler: JE	E RIAL	/	ŝ	H	DRO			IIS (0 ₂ ,P	82 F						
		□ Othe	r	On Ice	St Dwig		A	Ę		8.1	4.1	827(3,NC	/ 80		7				N)
	(Type)			Sample Tem	oo allane 🖓 🏠	ader Darles Z		Ш	(GR	d 41	d 50	or	tals	NO,	des	2	07				γ°
Date	Time	Matrix	Sample Request ID	1 A2 10/0/13	Preservative Type	HEAL No.		BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORUDE			Air Bubbles (Y or N)
2/5/2013	1501	SOIL	95 BGT , 5-P6 @ 5	402×1		-201	X		Х									X			-
																			\neg		
																			1	+	
																			+	+	
																			+	+	
			· .																		
Date:	Time:	Relinquish	Blogg	Received by:	Var	Date Time	Ren	nark					ERI	NG	AR	IFA	105				
Date: Utic	Time:	Rélinquish	that	Received by:	hm	Date Time Doc. 106/18 0730	1			VI	D :	VH	lixo	NE	VB						

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



