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.

Name and Address of the Owner, where the Party of the Owner, where the Party of the Owner, where the Owner, which the Owner,			
		Pit, Below-Grade Tank, or	
6176	Proposed Alternative	ve Method Permit or Closure Plan Ap	plication CONS. DIV DIST. 3
V	Permit of a pit Closure of a p Modification t	t or proposed alternative method it, below-grade tank, or proposed alternative method to an existing permit/or registration	DEC 22 2017
	or proposed alternative method	only submitted for an existing permitted or non-perm	nitted pit, below-grade tank,
	Instructions: Please submit one applic	cation (Form C-144) per individual pit, below-grade tank	or alternative request
environment. No	r does approval relieve the operator of its resp	the operator of liability should operations result in pollution opensibility to comply with any other applicable governmental	
Operator: BP	America Production Company	OGRID #: 778	
Address: 200	Energy Court, Farmington, NM 8740	01	
Facility or well	name: ATLANTIC B LS 004A		
API Number:	3004523379	OCD Permit Number:	
U/L or Qtr/Qtr	J Section 5	OCD Permit Number:	San Juan
Center of Propo	osed Design: Latitude 36.839172	Longitude -107.903863	NAD83
	: 🔳 Federal 🗌 State 🗌 Private 🗌 Tribal		
2.	¥	Robert Confirmal Marie of Co	O
Pit: Subse	ection F, G or J of 19.15.17.11 NMAC	Release Confirmed Additional C-	141 required.
Temporary:	Drilling Workover		
Permanent [☐ Emergency ☐ Cavitation ☐ P&A ☐	Multi-Well Fluid Management Low Chloride	e Drilling Fluid 🗌 yes 🗌 no
Lined U	Unlined Liner type: Thickness	mil LLDPE HDPE PVC Other	
☐ String-Rein	forced		
Liner Seams: [☐ Welded ☐ Factory ☐ Other	Volume:bbl Dimension	ons: L x W x D
3.		TANKA	
	de tank: Subsection I of 19.15.17.11 NM.		
	bbl Type of fluid:	roduced Water	
Tank Construct	tion material: Steel		
☐ Secondary	containment with leak detection Visib	ble sidewalls, liner, 6-inch lift and automatic overflow shu	t-off
☐ Visible side	ewalls and liner Visible sidewalls only	Other Single wall/ Double bottom; sidewalls	s visible
Liner type: Thi		DPE PVC Other	
4.			
Alternative			
Submittal of an	exception request is required. Exceptions	s must be submitted to the Santa Fe Environmental Bureau	office for consideration of approval.
5.	D 0101515111011011		
		o permanent pits, temporary pits, and below-grade tanks)	
Chain link, institution or ch		re at top (Required if located within 1000 feet of a perman	nent residence, school, hospital,
Four foot he	eight, four strands of barbed wire evenly spa	aced between one and four feet	

(23)

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)	
Monthly hispections (if fletting of screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC	
Variances and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: □ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. □ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ 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
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Natural 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 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	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	cuments are
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	.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the 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 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 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	documents are
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
14.	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ 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	

3 4	
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	□ Ves □ Ne
Within a 100-year floodplain.	Yes No
- 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. 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 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.
Name (Print):	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date: 12/	22/15
	760//
Title: Louironmental Spec OCD Permit Number:	
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	
Closure Completion Date: 10/19/2017	
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)
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure 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	dicate, by a check
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude 36.839172 Longitude -107.903863 NAD: 1927	

Operator Closure Certification:	
I hereby certify that the information and attachments su	abmitted with this closure report is true, accurate and complete to the best of my knowledge and applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature: Crin garifalos	Date: December 14, 2017
e-mail address: erin.garifalos@bp.com	Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

ATLANTIC B LS 004A

API No. 3004523379

Unit Letter J Section 5 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	< 0.020
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	<0.079
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<50
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. Impacted soils were discovered during the confirmation sampling. That release will be addressed following the spill and release guidelines. 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.

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Sampling results indicate a release has occurred at impacted soil adjacent to the BGT. The release will be addressed following the spill and release guidelines. 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 occurred at impacted soil adjacent to the BGT. The release will be addressed following the spill and release guidelines. 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 BGT location. The location will be reclaimed once the well is plugged and abandoned.

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

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

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

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

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

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

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

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

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

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 <u>District II</u> 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico Energy Minerals and Natural Resources

Revised April 3, 2017

Attached

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Fran	icis Dr., Sant	a Fe, NM 8/50	>	Sa	anta F	e, NM 875	505						
			Rele	ease Notific	catio	n and Co	orrective A	ction					
						OPERA'	ГOR	■ In	nitial Re	eport 🗌	Final Report		
		America Produc		ny		ContactErin							
		t, Farmington, N	M 87401			Telephone No. (832) 609-7048							
Facility Na	me ATLANTI	C B LS 004A				Facility Typ	e: Natural Gas We	II					
Surface Ow	ner: Federa	d		Mineral (Owner:	Federal		API	No.3004	4523379			
						N OF RE							
Unit Letter	Section	Township	Range	Feet from the	_	/South Line	Feet from the	East/West Lin	e Coi	unty			
J	5	30N	10W	1,770	Soi	uth	1,770	East		San	Juan		
			Latitud	36.839172	L	ongitude1	07.903863	NAD83					
				NAT	TURE	OF REL							
Type of Rele	ase:: none	9					Release: unkn			vered:: N/A r of Discovery			
Source of Re	belo	w grade ta	nk - 95	bbl		n/a		n/a	iiu rioui	of Discovery			
Was Immedi	ate Notice (Voc.	No □ Not R	aguirad	If YES, To	Whom?						
By Whom?			ies v	NO LI NOUN	equireu	Date and I	Ious						
Was a Water	course Rea	ched?					olume Impacting	the Watercourse					
			Yes 🗸	No									
If a Watercon	urse was Im	pacted, Descr	ibe Fully.3	k									
Describe Cau	ise of Probl	em and Reme	dial Action	n Taken.*		h 11 h	4b 4b - DOT	dana di ula a sa		Osil saskasis	nanulta d fan		
				Sampi			th the BGT was with all below B						
				discov	ered du	uring the conf	irmation samplir	ng. The release	will be	addressed for			
					nd relea	ase guideline:	s. Field reports a	and laboratory	esuits a	are attached.			
Describe Are	a Affected	and Cleanup	Action Tak	^{cen.*} Subsequ	uent s	samples v	vere taken a	it 4' and 9'	at the	impacted	soil. The		
							ed following						
							nalysis are						
				is true and comp									
regulations a	ll operators	are required t	o report ar	nd/or file certain r	release r	notifications a	nd perform correct	ctive actions for	releases	which may en	ndanger		
				ce of a C-141 reporting investigate and r									
or the enviro	nment. In a	addition, NMC	OCD accep	otance of a C-141									
federal, state	, or local la	ws and/or regi	ılations.				OIL CON	CEDVATIO	N DIX	VICION			
	orin a	ATTER D	- 1 -				OIL CON	SERVATIO	יוע אוי	<u> </u>			
Signature:	Jun 8	vrifali	~										
		arifalos				Approved by	Environmental S	pecialist:					
				100									
Title: Field	d Envir	onmenta	al Coo	rdinator		Approval Da	te:	Expirati	on Date:				
E-mail Addre	ess: erin.	garifalos	@bp.	com		Conditions of	f Approval:			ll 🗖			

* Attach Additional Sheets If Necessary

Date: December 14, 2017

#NCS 1735635 350

Phone: (832) 609-7048

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

October 12, 2017

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

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: ATLANTIC B LS 004A API #: 3004523379

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 October 18, 2017. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

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

Sincerely,

Erin Garifalos

BP America Production Company

From:

Buckley, Farrah (CH2M HILL)

To:

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

Cc: Subject: jeffcblagg@aol.com; blagg_njv@yahoo.com; Garifalos, Erin RE: BP Pit Close Notification - ATLATNIC B LS 004A

Date:

Thursday, October 12, 2017 2:37:13 PM

BP America Production Company

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

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

October 12, 2017

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

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

ATLANTIC B LS 004A API 30-045-23379 (J) Section 5– T30N – R10W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around October 18, 2017.

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

° ~ RD			3004523379
CLIENT: DI		37413	TANK ID -
PO. BOX 87, BL.OOMFIELD, NM 87413 (505) 632-1199 FIELD REPORT: SITE INFORMATION: SITE MARE ATLANTIC B LS #4A CUADUNIT J SEC 5 TAP. 30N RNG. 10W PM. NM. CNTY. S.J. ST. NM. 1/14 -144FOOTAGE 1,770'S 11,770'S NWSE LEASE TYPE [FEDERAL] STATE / FEE / INDIAN LEASE #. SF080917 PROD. FORMATION: MV CONTRACTOR BP-J. GONZALES POR COORD: 36.839172 X 107.903863 DISTALESER/BRIGHTON/UNI. 29 GPS COORD: 36.839172 X 107.903863 DISTALESER/BRIGHTON/UNI. 30 GPS COORD: 36.839172 X 107.903863 DISTALESER/BRIGHTON/UNI. 41 GPS COORD: DISTALESER/BRIGHTON/UNI. 42 GPS COORD: DISTALESER/BRIGHTON/UNI. 43 GPS COORD: DISTALESER/BRIGHTON/UNI. 44 GPS COORD: DISTALESER/BRIGHTON/UNI. 45 GPS COORD: DISTALESER/BRIGHTON/UNI. 46 GPS COORD: DISTALESER/BRIGHTON/UNI. 46 GPS COORD: DISTALESER/BRIGHTON/UNI. 47 GPS COORD: DISTALESER/BRIGHTON/UNI. 48 GPS COORD: DISTALESER/BRIGHTON/UNI. 49 GPS COORD: DISTALESER/BRIGHTON/UNI. 40 GPS COORD: DISTALESER/BRIGHTON/UNI. 50 GAMPLE IN SEC 11 GPS (95) SAMPLE DISTALESER/BRIGHTON/UNI. 50 GAMPLE IN SEC 11 GPS (95) SAMPLE DISTALESER/BRIGHTON/UNI. 50 GAMPLE IN SAMPLE DISTALESER/BRIGHTON/UNI. 50 GAMPLE DIST			
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHE	ER:	PAGE #:1 of1_
SITE INFORMATION	I: SITE NAME: ATLANTIC B LS # 4A		DATE STARTED: 10/16/17
QUAD/UNIT: J SEC: 5 TWP:	30N RNG: 10W PM: NM CNTY: SJ	ST: NM	DATE FINISHED:
1/4 -1/4/FOOTAGE: 1,770'S / 1,7	70'E NW/SE LEASE TYPE: FEDERAL STATE / FE	E / INDIAN	
LEASE #: SF080917	PROD. FORMATION: MV CONTRACTOR: BP - J. GONZ		
	(
1) 95 BGT (SW/DB)	GPS COORD.: 36.839172 X 107.903863	DISTANCE/BEA	RING FROM W.H.: 152.5', N11.5W
2)	GPS COORD.:	DISTANCE/BEA	RING FROM W.H.:
3)	GPS COORD.:	DISTANCE/BEA	RING FROM W.H.:
4)	GPS COORD.:	DISTANCE/BEA	AND THE CONTRACT OF THE CONTRA
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL		READING
1) SAMPLE ID: 5PC - TB @ 5'	(95) SAMPLE DATE: 10/16/17 SAMPLE TIME: 1130 LAB	ANALYSIS: 801	
2) SAMPLE ID:	SAMPLE DATE: SAMPLE TIME: LAB	ANALYSIS:	
SOIL COLOR: DARK YELLOWS COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY / SLIGHTLY MOIST / MOIST W SAMPLE TYPE: GRAB / COMPOSITE - #	PLASTICITY (CLAYS): NON PLASTIC / SI Y COHESIVE / COHESIVE / HIGHLY COHESIVE DOSE FIRM DENSE / VERY DENSE T SATURATED / SUPER SATURATED # OF PTS. PLASTICITY (CLAYS): NON PLASTIC / SI DENSITY (COHESIVE CLAYS & SILT HC ODOR DETECTED: YES NO EXP ANY AREAS DISPLAYING WETNESS:	LIGHTLY PLASTIC / C TS): SOFT / FIRM / PLANATION - DIS	OHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC STIFF / VERY STIFF / HARD COLORED SOILS ONLY VATION - IMPACTED AREA ONLY
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:	DAND/OR OCCURRED: YES NO EXPLANATION: PHYSICALLY BY DISC YES NO EXPLANATION - 105 BBL SHALLOW LOW PROFILE ABO	OLORATION & I	HYDROCARBON ODOR NK TO BE SET ATOP BGT LOCATION
EXCAVATION DIMENSION ESTIMATION:	ft. X ft. X ft. E	EXCAVATION EST	ΓΙΜΑΤΙΟΝ (Cubic Yards) :
DEPTH TO GROUNDWATER: <100	EAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: _ <	(1,000' NMOC	D TPH CLOSURE STD: 100 ppm
SITE SKETCH	BGT Located : off on site PLOT PLAN circle:	attached 0VM	CALIB READ = 100.0 ppm pc-4.00
		4	
	BERM		
IMPACTED	PBGTL TR or 5	<u>w</u>	MISCELL. NOTES
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
SEPARATOR →			
\	COMPRESSOR		
PLEED REPORT: (Sich only BETOMPRINTION) RELEASE INVESTIGATION / OTHER: PAGE #: 1 of 1 DATE STAPPED TO THE INFORMATION: SITE INFORMATION: STENNE ATLANTIC B LS #AA QUADULINT J SEC 5 TAVP. 30N RING: 10W PM. NM. CNTY. S.J. ST. NM. LEASE W. FOR0917 PROD. FORMATION: MV. CONTRACTOR BP1. GONZALES PEFERENCE POINT: WELL HEAD (WH) of OPS COORD: 36.83803 X 1079.90334 LEASE: S. FOR0917 PROD. FORMATION: MV. CONTRACTOR BP1. GONZALES PEFERENCE POINT: WELL HEAD (WH) of OPS COORD: 36.83803 X 1079.90334 LEEN: 6,238 REFERENCE POINT: WELL HEAD (WH) of OPS COORD: 36.83803 X 1079.90334 LEEN: 6,238 GPS COORD: USINGESPRING FRAMINH: SPECIALISTS) N.V. PROD. GPS COORD: USINGESPRING FRAMINH: SPECIALISTS) N.V. PROD. GPS COORD: USINGESPRING FRAMINH: SPECIALISTS) N.V. SAMPLING DATA: CHANGE CUSTOOV RECORDS OF OR LAB USED. HALL SAMPLE BD. SPC-TB @ 5 (S) SAMPLE BD.			
		Tar	nk OVM = Organic Vapor Meter
NOTES, DOT - DELONIODADE TANK E.D EVONUTE	Λ,		
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL			lagnetic declination: 10° E
NOTES: GOOGLE EARTH IMAGE	ERY DATE: 3/15/2015. ONSITE: 10/16/17		

Analytical Report

Lab Order 1710878

Date Reported: 10/19/2017

Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 ATLANTIC B LS #4A
 Collection Date: 10/16/2017 11:30:00 AM

 Lab ID:
 1710878-001
 Matrix: SOIL
 Received Date: 10/17/2017 6:50:00 AM

Result PQL Qual Units **DF** Date Analyzed **Analyses** Batch Analyst: CJS **EPA METHOD 300.0: ANIONS** Chloride mg/Kg 10/17/2017 11:29:14 AM 34438 ND 30 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: TOM Diesel Range Organics (DRO) 10 mq/Kq 1 10/17/2017 9:50:17 AM 34435 Motor Oil Range Organics (MRO) 10/17/2017 9:50:17 AM 34435 ND 50 mg/Kg 1 Surr: DNOP 98.1 70-130 %Rec 10/17/2017 9:50:17 AM 34435 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3.9 mg/Kg 10/17/2017 9:52:06 AM G46399 Surr: BFB 91.3 54-150 %Rec 10/17/2017 9:52:06 AM G46399 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene 10/17/2017 9:52:06 AM B46399 ND 0.020 mg/Kg Toluene ND 0.039 mg/Kg 10/17/2017 9:52:06 AM B46399 Ethylbenzene ND 0.039 mg/Kg 1 10/17/2017 9:52:06 AM B46399 Xylenes, Total ND 0.079 10/17/2017 9:52:06 AM B46399 mg/Kg Surr: 4-Bromofluorobenzene 94.6 66.6-132 %Rec 10/17/2017 9:52:06 AM B46399

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 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - V Sample container temperature is out of limit as specified

Chain-of-Custody Record	Tum-Around Til	me:	SAME				HA	LL	FI	NV	TE	20	MA	1F	NT	AI		
Client: BLAGG ENGR. / BP AMERICA	☐ Standard (☑ Rush	DAY		2010	_		IAL								-		1
	Project Name:							vw.ha									-	
Mailing Address: P.O. BOX 87	ATLA	NTIC B L	S # 4A		490	01 Ha	wkins								3			4
BLOOMFIELD, NM 87413	Project #:			1			-345-					345-						
Phone #: (505) 632-1199]						10	Α	naly	ysis	Rec	lues	t		15			
email or Fax#:	Project Manage	or.					T			4)				300.1)		\top	T	
QA/QC Package: Standard Level 4 (Full Validation)	r	NELSON VI	ELEZ	(8021B)	+ TPH (Gas only)	/ MRO)		IS)		PO4, SO	PCB's		-	water - 300			o l	
Accreditation:	Sampler: N	VELSON VE	ELEZ ny	1 S	(Ga	DRO	뒤유	SIN		102,	8082			~			sample	
□ NELAP □ Other	On tees - 1	(Yes	il⊇ No ≀	#	TPH	0/1	418.1)	8270SIMS)	.,	03,1			8	300,0			e sa	or N
□ EDD (Type)	Sample Temper	alure (0)		1	3E +	(GRO	po po	ō	etals	CI,N	cide	F	i-V	1		ا چ	osit	3
Date Time Matrix Sample Request ID	Container Type and # Molked	Preservative Type	HEAL No.	BTEX +-MTBE	BTEX + MTBE	TPH 8015B	TPH (Method 418.1) EDB (Method 504.1)	PAH (8310	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		ap .	5 pt. composite	Air Bubbles (Y
10/16/17 1/30 SOIL SPC-TB@ 5 '(95)	4 oz 1	Cool	701	V		٧					-	-		V		_	V	Ì
							_								\top	\top		
							+	 						+	+	+	\dagger	7.
						1	+	+		\neg			_	\dashv	+	+	+	\dashv
	 			\vdash		1	+	-					\neg	_	+	+	+	-
						-	+	+			-		\dashv	-	1	-	+	-
				-		+	+	\vdash				\dashv	\dashv	\dashv	+	+	+	\dashv
				-		-	-	-			-		-	\dashv	+	+	+	-
						-	+	-	\vdash	\square			_	-	+	+	1	\dashv
								-					_	_	\dashv	_	_	_
						_	_	_							\perp	_	_	_
		,													\perp			
Date: 10/16/17 1740 Relinquished by:	Received by:	Letal	Date Time		ONT	8	REFER	NCE#	WHEN	LAPPL	LICAB	LE;		ITH CO	ORRES	POND	ING	/ID
Date: Time: Relinquished by:	Received by:		Date Time	1 ~			/HIXO			, •	TOE	11170	214					
If necessary, samples submitted to Hall Environmental may be su	boontracted to other acc	1	10.117117 B. This serves as notice		eren		-	- 886		will 6	e cles	erly not	tated o	on the	analytir	al ren	ort.	

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710878

19-Oct-17

Client:

Blagg Engineering

Project:

ATLANTIC B LS #4A

Sample ID MB-34438

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 34438

RunNo: 46401

Prep Date: 10/17/2017

Analysis Date: 10/17/2017

SeqNo: 1479260

Units: mg/Kg

Analyte

PQL ND 1.5

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** Qual

Chloride

SampType: Ics

RunNo: 46401

TestCode: EPA Method 300.0: Anions

Client ID:

LCSS

Sample ID LCS-34438

Batch ID: 34438

Result

SeqNo: 1479261

Units: mg/Kg

Analyte

Prep Date: 10/17/2017

Analysis Date: 10/17/2017

SPK value SPK Ref Val %REC

HighLimit LowLimit

%RPD **RPDLimit** Qual

Chloride

PQL

15.00

95.5

90

Page 2 of 5

14 1.5

110

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710878

19-Oct-17

Client:

Blagg Engineering

Project:

ATLANTIC B LS #4A

Result

Result

Sample ID LCS-34435 Client ID: LCSS

SampType: LCS

RunNo: 46391

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

Prep Date: 10/17/2017

Batch ID: 34435 Analysis Date: 10/17/2017

SeqNo: 1478054

Units: mg/Kg

114

130

Analyte Diesel Range Organics (DRO) Surr: DNOP

45 10 4.0

PQL

SPK value

50.00

5.000

10.00

SPK Ref Val %REC LowLimit 89.2

HighLimit

Qual

Sample ID MB-34435

SampType: MBLK

0

SPK value SPK Ref Val %REC LowLimit

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

%RPD

%RPD

Client ID:

Prep Date:

10/17/2017

Batch ID: 34435 Analysis Date: 10/17/2017

RunNo: 46391 SeqNo: 1478055

79.3

Units: mg/Kg

RPDLimit

RPDLimit Qual

Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)

10 ND 50 9.3

93.0

70

73.2

130

HighLimit

Surr: DNOP

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710878

19-Oct-17

Client:

Blagg Engineering

Project:

ATLANTIC B LS #4A

Sample ID RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

LowLimit

15

Client ID:

Batch ID: G46399

RunNo: 46399

Prep Date:

Analysis Date: 10/17/2017

SeqNo: 1478821

%REC

Units: mg/Kg

Analyte

Result PQL SPK value SPK Ref Val

RPDLimit

Qual

Gasoline Range Organics (GRO)

ND 960

1000

96.3

HighLimit

%RPD

Surr: BFB Sample ID 2.5UG GRO LCS

PBS

TestCode: EPA Method 8015D: Gasoline Range

316

Client ID: LCSS

SampType: LCS

RunNo: 46399

Prep Date:

Batch ID: G46399

PQL

5.0

5.0

Units: mg/Kg

Analysis Date: 10/17/2017

SeqNo: 1478822

%REC

%RPD

RPDLimit Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result 28 1100

25.00 1000

SPK value SPK Ref Val

112 107

75.9 15

HighLimit 316

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

Practical Quanitative Limit PQL

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

Analyte detected below quantitation limits

Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1710878

19-Oct-17

Client:

and the sign

Blagg Engineering

Project:

ATLANTIC B LS #4A

Sample ID RB	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method				
Client ID: PBS	Batch ID: B46399			F	RunNo: 4	6399				
Prep Date:	Analysis D	ate: 10	0/17/2017	S	SeqNo: 1	478842	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	1.0		1.000		101	66.6	132			

Sample ID 100NG BTEX LC	Samp	SampType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batc	h ID: B4	6399	F	RunNo: 4	6399				
Prep Date:	Analysis [Date: 10	0/17/2017	8	SeqNo: 1	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	80	120			
Toluene	0.95	0.050	1.000	0	95.1	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	66.6	132			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
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- 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 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

LABORATORY	Website: www.	hallenvironmental.	.com		
Client Name: BLAGG Work Order Number		er: 1710878		RcptNo:	1
Received By: Anne Thorne 10/17/2017 6:50:00 /			ame Il-	_	*
Completed By: Anne Thorne 10/17/2017 7:28:12 Reviewed By: 5722 10/17/17		AM	ame Som	-	
Chain of Custody					
1 Custody seals intact on sample bottles?		Yes	No 🗆	Not Present ✓	
2. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
<u>Log In</u>					
4. Was an attempt made to cool the samples?		Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C		Yes 🗸	No 🗌	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
7. Sufficient sample volume for indicated test(s)?		Yes 🗸	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?		Yes 🗹	No 🗌		
9. Was preservative added to bottles?		Yes	No 🗸	NA 🗆	
10.VOA vials have zero headspace?		Yes	No 🗆	No VOA Viais	
11. Were any sample containers received broken?		Yes	No 🗹		
				# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	for pH:	>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?		Yes 🗸	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🗹	No 🗆		
15. Were all holding times able to be met?		Yes 🗹	No 🗆	Checked by:	•
(If no, notify customer for au	:horization.)				
Special Handling (if appli	cable)				
16. Was client notified of all discrepancies with this order?		Yes	No 🗆	NA 🗹	
Person Notified:	Date				
By Whom: Via:		eMail F	Phone Fax	In Person	
Regarding:					
Client Instructions:				and the second s	
17. Additional remarks:					
18. Cooler Information	- m 1- m 1- m				
	Condition Seal Intact Seal No Sood Yes	Seal Date	Signed By		
17.0	1100				



