District I 1625 N. French Dr., Hobbs, NM 88240 District II 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

16341

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.

<u>Pit, Below-Grade Tank, or</u> 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.

Operator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: BURNHAM GC B 001
API Number: 3004529227 OCD Permit Number:
U/L or Qtr/Qtr M Section 12 Township 29N Range 13W County: San Juan
Center of Proposed Design: Latitude 36.735772 Longitude -107.162056 NMOCD NAD83
Surface Owner: 🗌 Federal 🗌 State 🔳 Private 🗌 Tribal Trust or Indian Allotment
2. APR 2.3 2010
Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover DISTRICT
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: 🗌 Welded 🗌 Factory 🗋 Other Volume:bbl Dimensions: L x W x D
3
3. Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A
Below-grade tank: Subsection I of 19.15.17.11 NMAC 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
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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
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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: Thickness mil HDPE PVC Other Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
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: Thickness mil HDPE PVC Other
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Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A Volume: 95bbl 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 HDPE PVC Other Other 4. 5. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)

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

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

12. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan 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. <u>Proposed Closure</u> : 19.15.17.13 NMAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	huid Monogement Dit
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	iulu ivianagement PIT
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	
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	allachea lo ine
15. Sidia Catania (manufing an aita dagana mathada anta), 10.15.17.10.NMAC	
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. If 19.15.17.10 NMAC for guidance.	ce material are Please refer to
 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	
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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 	
Within a 100-year floodplain.	Yes No
- 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 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 19.15.17.13 NMAC 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 Maste 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 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 believed.	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. <u>OCD Approva</u> l: Permit Application (including elosure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date: SHIT	2018
Title: <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC 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.	complete this

Oil Conservation Division

22. Operator Closure Certification:

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

Name (Print): Erin Garifalos

Signature:

Title: Field Environmental Coordinator

erin garifalos

Date: April 19, 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

BURNHAM GC B 001

API No. 3004529227

Unit Letter M Section 12 T 29N R 13W

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

General Closure Plan

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

Notice is attached.

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

Notice was provided and is attached.

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

BP BGT Closure Plan 04-01-2010

- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

All liquids and sludge in the BGT were removed and sent to one of the above NMOCD approved facilities for disposal.

4. BP shall remove the BGT and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approves. If a liner is present and must be disposed of it will be cleaned by scraping any soils or other attached materials on the liner to a de minimus amount and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.

The BGT was transported for recycling.

5. BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.

All equipment associated with the BGT has been removed.

6. BP shall test the soils beneath the BGT to determine whether a release has occurred. BP shall collect at a minimum: a five (5) point composite sample and individual grab samples from any area that is wet, discolored or showing other evidence of a release and analyze for BTEX, TPH and chlorides. The testing methods for those constituents are as follows;

Constituents	Testing Method	Release Verification	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.020
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.080
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	1330
Chlorides	US EPA Method 300.0 or 4500B	620	660

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 only BTEX concentrations below the stated limits. The release will be addressed following the spill and release guidelines. 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 occurred, which 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, which will be addressed following the spill and release guidelines. Attached is a laboratory report and field report. The location has been reclaimed as the well was 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 the location has been reclaimed as the well has been 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 the location has been reclaimed as the well has been 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 the location has been reclaimed as the well has been 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 the location has been reclaimed as the well has been 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 the location has been reclaimed as the well has been plugged and abandoned.

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

BP did not meet the 60 closure completion requirement due to an error in internal tracking. Closure report on C-144 form is included including photos of reclamation completion.

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

Certification section of C-144 has been completed.

BP BGT Closure Plan 04-01-2010

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR Initial Report **Final Report** Contact Erin Garifalos Name of Company BP America Production Company Telephone No. (832) 609-7048 Address 200 Energy Court, Farmington, NM 87401 Facility Name BURNHAM GC B 001 Facility Type: Natural Gas Well Surface Owner: Fee Mineral Owner Fee API No. 3004529227 LOCATION OF RELEASE Feet from the North/South Line Feet from the East/West Line Unit Letter Section Township Range County San Juan Μ 12 29N 13W 850 South 1.190 West Longitude -107.162056 Latitude 36.735772 NAD83 NATURE OF RELEASE Volume of Release: : unknown Type of Release:: none Volume Recovered: : N/A Source of Release: below grade tank - 95 bbl Date and Hour of Occurrence: Date and Hour of Discovery: n/a n/a Was Immediate Notice Given? If YES, To Whom? Yes 🗸 No 🗌 Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes 🗹 No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal. Soil analysis resulted for Chlorides, BTEX, and TPH below BGT closure standards with only BTEX below regulatory standards. The release will be addressed following the spill and release guidelines. Field reports and laboratory results are attached. Describe Area Affected and Cleanup Action Taken.* Final laboratory analysis is attached. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. **OIL CONSERVATION DI** bun garifalos Signature: Approved by Environmental Specialist: Printed Name: Erin Garifalos Title: Field Environmental Coordinator Approval Date **Expiration Date:** E-mail Address: erin.garifalos@bp.com Conditions of Approval: Attached Date: April 19, 2018 Phone: (832) 609-7048

* Attach Additional Sheets If Necessary

NCS 1806555033





BP America Production Company 380 Airport Road Durango, CO 81303

February 15, 2018

Barbara Coleman 195 McDonald Road Farmington, NM 87401

Re: Notification of plans to close/remove a below grade tank Well Name: BURNHAM GAS COM B 001

Dear Mrs. Coleman,

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 19, 2018. If there aren't any unforeseen problems, the work should be completed within 10 working days.

F

Sincerely,

Erin Garifalos

BP America Production Company

From: To: Cc: Subject: Date:

8 . 1 . A.

Buckley, Farrah (CH2M HILL) Smith, Cory, EMNRD; Fields, Vanessa, EMNRD (Vanessa, Fields@state.nm.us) jeffcblagg@aol.com; blagg_niv@yahoo.com; Garifalos, Erin; Moskal, Steven; Beebe, Sabre BP Pit Close Notification - BURNHAM GC B 001 Thursday, February 15, 2018 8:47:37 AM

> 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 15, 2018

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

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

BURNHAM GC B 001 API 30-045-29227 (M) Section 12 – T29N – R13W 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 19, 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

9, 6 .

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.

	BLAGG ENGINEE P.O. BOX 87, BLOOMF		API#: 3004529227
9 , C .	(505) 632-1		TANK ID (if applicble):
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEASE INV	ESTIGATION / OTHER:	PAGE #: _1 of _1
	SITE NAME: BURNHAM GC		DATE STARTED: 02/19/18
QUAD/UNIT: M SEC: 12 TWP:		CNTY: SJ ST: NM	DATE FINISHED:
<u>1/4 -1/4/FOOTAGE:</u> 850'S / 1,19	W SW/SW LEASE TYPE: FEDE ROD. FORMATION: PC CONTRACTOR	KELLEV OF S	ENVIRONMENTAL SPECIALIST(S): NJV
REFERENCE POINT			7 GL ELEV.: 5,476'
1) 95 BGT (SW/DB)			RING FROM W.H.: 128', S34W
2)	GPS COORD.:	DISTANCE/BEA	RING FROM W.H.:
3)	GPS COORD.:	DISTANCE/BEA	RING FROM W.H.:
4)	GPS COORD.:	DISTANCE/BEA	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: _	HALL	OVM READING (ppm)
	95) SAMPLE DATE: 02/19/18 SAMPLE		15B/8021B/300.0 (CI) NA
	SAMPLE DATE:SAMPLE SAMPLE SAMPLE DATE:SAMPLE		
	SAMPLE DATE: SAMPLE		
5) SAMPLE ID:	SAMPLE DATE: SAMPLE	TIME: LAB ANALYSIS:	
SOIL DESCRIPTION	SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CL	Y/CLAY/GRAVEL OTHER BEDRO	CK (SANDSTONE)
SOIL COLOR: PALE YEL	OWISH BROWN PLASTICITY (CL	AYS): NON PLASTIC / SLIGHTLY PLASTIC / C	OHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
CONSISTENCY (NON COHESIVE SOLLS): LC MOISTURE: DRY SLIGHTLY MOIST MOIST / W SAMPLE TYPE: GRAB COMPOSITE # DISCOLORATION/STAINING OBSERVED: YES	T / SATURATED / SUPER SATURATED	ECTED: YES NO EXPLANATION -	
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: GAS WELL RECENTLY PLUGG	S: LOST INTEGRITY OF EQUIPMENT: YES NO EXF AND/OR OCCURRED : YES NO EXPLANATION: ES NO EXPLANATION - D & ABANDONED (P&A). NMOCD REP. NOT GHTLY FRIABLE (SAMPLED). CORRECT GF NA_ft. X NA_ft. X	PRESENT TO WITNESS CONFIRM S COORD. FOR BGT: 36.735636 x	
DEPTH TO GROUNDWATER: >100' N	AREST WATER SOURCE:NEAREST S	URFACE WATER: < < 1,000' NMOO	CD TPH CLOSURE STD: 1,000 ppm
SITE SKETCH	BGT Located : off on site PLO		CALIB. READ. = NA ppm RF = 1.00 ICALIB. GAS = MA ppm NA MISCELL. NOTES O: 4300903069 IFE #: X7-006WM-E:REST ICALIB.
FE	CE PBGTL T.B. ~ 6' B.G. DODEN R.W.	FENCE S G P O Tai IL A	IO #: 190040007672 EL #: 745277 ermit date(s): 06/14/10 CD Appr. date(s): 03/05/15 nk OVM = Organic Vapor Meter
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL	I DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST W-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATIO WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE	N; R.W. = RETAINING WALL; NA - NOT	BGT Sidewalls Visible: Y / N lagnetic declination: 10° E
NOTES: GOOGLE EARTH IMAG		SITE: 02/19/18	
revised: 11/26/13			BEI1005E-6 SKE

* Hall Environmental Analys	sis Laborato	ory, In	c.			Lab Order 1802A56 Date Reported: 2/21/20	18
CLIENT: Blagg Engineering			C	lient Samp	le ID: 5P	C-TB @ 6' (95)	
Project: BURNHAM GC B 1				Collection	Date: 2/1	9/2018 8:30:00 AM	
Lab ID: 1802A56-001	Matrix: So	DIL		Received	Date: 2/2	20/2018 7:55:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	660	30		mg/Kg	20	2/20/2018 10:55:55 AM	3661
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	TOM
Diesel Range Organics (DRO)	740	94		mg/Kg	10	2/20/2018 9:39:17 AM	3660
Motor Oil Range Organics (MRO)	590	470		mg/Kg	10	2/20/2018 9:39:17 AM	3660
Surr: DNOP	0	70-130	S	%Rec	10	2/20/2018 9:39:17 AM	3660
EPA METHOD 8015D: GASOLINE RAM	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	2/20/2018 9:50:09 AM	3659
Surr: BFB	94.5	15-316		%Rec	1	2/20/2018 9:50:09 AM	3659
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.020		mg/Kg	1	2/20/2018 9:50:09 AM	3659
Toluene	ND	0.040		mg/Kg	1	2/20/2018 9:50:09 AM	3659
Ethylbenzene	ND	0.040		mg/Kg	1	2/20/2018 9:50:09 AM	3659
Xylenes, Total	ND	0.080		mg/Kg	1	2/20/2018 9:50:09 AM	3659

80-120

%Rec

1

94.4

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

Qua		

*

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- 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 Page 1 of 5 J

Analytical Report

2/20/2018 9:50:09 AM 36593

- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CI	hain-c	of-Cus	stody Red	cord	Turn-Around	Time:	SAME],	I			44		E	NV	TE	20	N		IN 1	ГÅ		
Client:	BLAG	ig Engr.	/ BP AMERIC	A	Standard	Rush_	DAY)			F													e.
					Project Name								w.ha										
Mailing A	ddress:	P.O. BO	X 87		BU	RNHAM GO	CB#1		49	01 H	lawk									9			
		BLOOM	FIELD, NM 874	13	Project #:		- 10 - 11 - 11 - 11 - 11 - 11 - 11 - 11	1	Te	el. 50)5-34	45-3	975	F	ax	505-	345	-410	7				
Phone #:		(505) 63	2-1199		1			E.		d.			А	anal	ysis	Ree	ques	st					
email or l	Fax#:				Project Mana	ger:									()				(F				
QA/QC Pa	-		Level 4 (Full	Validation)		SABRE BEI	EBE	MB ^I s (8021B)	+ TPH (Gas only)	(MRO)			S)		04,50	PCB's			ter - 300.1)			(1)	
Accredita					Sampler:	NELSON V	ELEZ nr	s (8)	(Gas	RO /	-	1	SIM		02,F	082			/ water			nple	
		□ Other			On lee 🔅 🖓	Vzeves -			HdT	d/0	418.	504.	8270	s	O3,N	ss / 8		(VC	300.0			te sai	or N)
	Type)	T			Sample Temp	erature.	19	L.		(GR	pot	por	or	etal	CI,N	cide	A)	ii-V0	oil -		ole	osit	X
Date	Time	Matrix	Sample Re	equest ID	Actor IZOIN Container Type and # MCott Kct	Preservative Type	HEALNO. RozASU	BTEX + MT	BTEX + MTBE	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil -		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
2/19/18	0830	SOIL	5PC - TB @	6 (95)	4 oz 1	Cool	201	V		V									V			V	
																-							
				,					-														
																				\vdash			
								-		-										\vdash	$ \rightarrow $		
				11.90					-	-	-				-					$ \square$			
															-	-				\vdash			
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Date: 2/19/18	Time:	Relinquishe	In VI		Received by:	last ,	Date Time		narks				FORM				BEFO	DRWA	RDED	FROM	ABP.	IFNO)Τ,
Date:	Time:	Relinquishe	the for	1	Received by:	m A	Date Time 02/20/18 																
	If necessary,	samples sub	mitted to Hall Environ	mental may be su	bcontracted to other	accredited laboratori	es. This serves as notice	of this	possi	bility.	Any su	ib-cor	ntracte	d data	a will I	be clea	arly no	itated	on the	analy	tical r	eport.	

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering **Project:** BURNHAM GC B 1

Sample ID MB-36615	SampType: mblk	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 36615	RunNo: 49244		
Prep Date: 2/20/2018	Analysis Date: 2/20/2018	SeqNo: 1589864	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD R	PDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-36615	SampType: Ics	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 36615	RunNo: 49244		
Prep Date: 2/20/2018	Analysis Date: 2/20/2018	SeqNo: 1589865	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RI	PDLimit Qual
Chloride	14 1.5 15.00	0 95.2 90	110	

Qualifiers:

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

WO#: 1802A56 21-Feb-18

- Page 2 of 5

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Project: BURNHAM GC B 1

Sample ID LCS-36608	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 36	608	F	unNo: 4	9232				
Prep Date: 2/20/2018	Analysis Da	ate: 2/	20/2018	S	eqNo: 1	588440	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.9	70	130			
Surr: DNOP	4.7		5.000		93.7	70	130			
Sample ID MB-36608	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics									
									-	
Client ID: PBS	Batch	ID: 36	608	R	unNo: 4	9232				
Client ID: PBS Prep Date: 2/20/2018	Batch Analysis Da				unNo: 4		Units: mg/K	g		
			20/2018				Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Prep Date: 2/20/2018	Analysis Da	ate: 2/	20/2018	S	eqNo: 1	588441			RPDLimit	Qual
Prep Date: 2/20/2018 Analyte	Analysis Da Result	ate: 2/ PQL	20/2018	S	eqNo: 1	588441			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#: 1802A56

21-Feb-18

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_QC SUMMARY REPORT

WO#: 1802A56

21-Feb-18

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering **Project:**

BURNHAM GC B 1

Sample ID MB-36593	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 36593	RunNo: 49247								
Prep Date: 2/19/2018	Analysis Date: 2/20/2018	SeqNo: 1589334 Units: mg/Kg								
Analyte	Result PQL SPK va	lue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual								
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 980 10	000 97.7 15 316								
Sample ID LCS-36593	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Sample ID LCS-36593 Client ID: LCSS	SampType: LCS Batch ID: 36593	TestCode: EPA Method 8015D: Gasoline Range RunNo: 49247								
	1 31									
Client ID: LCSS	Batch ID: 36593 Analysis Date: 2/20/2018	RunNo: 49247								
Client ID: LCSS Prep Date: 2/19/2018	Batch ID: 36593 Analysis Date: 2/20/2018 Result PQL SPK va	RunNo: 49247 SeqNo: 1589335 Units: mg/Kg								

Qualifiers:

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

- Page 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

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Client: Blagg Engineering Project: BURNHAM GC B 1

Surr: 4-Bromofluorobenzene

Dolum	uniti de b i										
Sample ID MB-36593	SampTyp	be: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles			
Client ID: PBS	Batch I	Batch ID: 36593 RunNo				D: 49247					
Prep Date: 2/19/2018	Analysis Dat	te: 2/	20/2018	S	eqNo: 1	589357	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	0.98		1.000		97.9	80	120				
Sample ID LCS-36593	SampTyp	be: LC	S	Test	Code: EF	PA Method	8021B: Volat	iles			
Client ID: LCSS	Batch I	D: 36	593	R	unNo: 4	9247					
Prep Date: 2/19/2018	Analysis Dat	e: 2/	20/2018	S	eqNo: 1	589358	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.025	1.000	0	102	77.3	128				
Toluene	1.0	0.050	1.000	0	99.9	79.2	125				
Ethylbenzene	0.99	0.050	1.000	0	99.3	80.7	127				
Xylenes, Total	3.0	0.10	3.000	0	101	81.6	129				

95.8

80

120

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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#: **1802A56** 21-Feb-18

Page 5 of 5

HALL ENVIRO ANALYS LABORA		Hall Environmental Albı TEL: 505-345-3975 Website: www.ha	490 iquerg FAX:	1 Hawkins ue, NM 87 505-345-4	NE 109 107	Sam	nple Log-In C	heck List
Client Name: B	LAGG	Work Order Number:	180	2A56			RcptNo:	1
Received By:	Anne Thorne	2/20/2018 7:55:00 AM		•	1	A		
•	Anne Thome	2/20/2018 8:02:58 AM			am	the		
Completed By: Reviewed By:		\$ 20/18 0.02.00 AM			Um	the	- ·	
		alcoler						
Chain of Custo	dy							
1. Is Chain of Cust	ody complete?		Yes	\checkmark	No		Not Present	
2. How was the sa	mple delivered?		Cou	ier				
Log In								
3. Was an attempt	made to cool the samples?	?	Yes	\checkmark	No		NA 🗌	
4. Were all samples	s received at a temperature	e of >0° C to 6.0°C	Yes		No			
5. Sample(s) in pro	per container(s)?		Yes		No			
6. Sufficient sample	volume for indicated test(5)?	Yes	\checkmark	No			
7. Are samples (exc	cept VOA and ONG) proper	ly preserved?	Yes	\checkmark	No		3	
8. Was preservative	e added to bottles?		Yes		No	\checkmark	NA 🗆	
9. VOA vials have z	ero headspace?		Yes		No		No VOA Vials 🗹	
0. Were any sample	e containers received broke	en?	Yes		No			
							# of preserved bottles checked	
	match bottle labels? ies on chain of custody)		Yes		No		for pH: (<2 or	>12 unless noted)
	ectly identified on Chain of	Custody?	Yes	\checkmark	No		Adjusted?	
3. Is it clear what an	alyses were requested?		Yes	V	No	_		
-	times able to be met?		Yes		No		Checked by:	
	g (If applicable) ad of all discrepancies with	this order?	Yes		No		NA 🗹	
	542-0122-00000000000000000000000000000000		105			www.mapar		
Person No By Whom:		Date J Via:	eMa		none	For	In Person	
Regarding	2	via. L				FBX		
Client Instr	Conception of the local data in the local data i			Sa he doctor while the	alan man, managar		CORNELISTRATION CONTRACTOR	
16. Additional remain	,		_	,				
7 Cooler Informe	tion							
7. Cooler Informa Cooler No		eal Intact Seal No S	eal Da	ate I	Signed	Bv I		
	.9 Good Ye				- Sugar	-7		
5	anan ann an 1997 an 19	e a general contra c			erigten filssatelans er			

Page 1 of 1

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