NMOCD

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

Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or									
Proposed Alternative Method Permit or Closure Plan Application									
Type of action: Below grade tank registration									
Permit of a pit or proposed alternative method									
Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank									
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									
lease 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 nvironment. 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: STATE GC CB 001E									
API Number: 3004525297 OCD Permit Number:									
U/L or Qtr/Qtr E Section 32 Township 30N Range 09W County: San Juan									
Center of Proposed Design: Latitude 36.77090 Longitude -107.80964 NAD83									
Surface Owner: Federal State Private Tribal Trust or Indian Allotment									
2.									
Pit: Subsection F, G or J of 19.15.17.11 NMAC									
Temporary: Drilling Workover									
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management ☐ Low Chloride Drilling Fluid ☐ yes ☐ no									
☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other									
String-Reinforced									
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D									
Taken Branch Bra									
3, TANK A									
Below-grade tank: Subsection 1 of 19.13.17.11 NVIAC									
Volume: 45 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 not visible									
Liner type: Thicknessmil									
4.									
Alternative Method:									
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.									
5.									
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)									
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)									
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet									

Alternate. Please specify

6. Notting: Subsection F of 10.15.17.11 NMAC (Applies to payment pits and payment open top tayles)								
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other								
Monthly inspections (If netting or screening is not physically feasible)								
Signs: Subsection C of 19.15.17.11 NMAC								
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers								
Signed in compliance with 19.15.16.8 NMAC								
Signed in compniance with 17.15.10.6 NWAC								
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							
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								
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								
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								
 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								
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								
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 300 feet 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								

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										
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										
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										
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site										
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										
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										
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										
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 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC 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 19.15.17.9 NMAC and 19.15.17.13 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 documents 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 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: 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	documents are							
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.19 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC								
<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.								
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fluid Management Pit 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								
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC 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 Critorio (regarding on site elecure methods only): 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. In 19.15.17.10 NMAC for guidance.								
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ 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								
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								
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								

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										
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 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. Please indicate, 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 19.15.17.11 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 Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) 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										
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.	ief.									
Name (Print):										
Signature: Date:										
e-mail address: Telephone:										
	51298									
e-mail address: Telephone:										
e-mail address: Telephone:	complete this									

22.	
Operator Closure Certification:	
	tted with this closure report is true, accurate and complete to the best of my knowledge and cable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature: Utin garifialas	Date: March 30, 2018
e-mail address: erin.garifalos@bp.com	Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

STATE GC CB 001E API No. 3004525297

Unit Letter E Section 32 T 30N R 09W

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)
- BP Operated GCU 259 SWD, API 30-045-20006 (Liquids) g.
- BP Operated GCU 306 SWD, API 30-045-24286 (Liquids) h.
- BP Operated GCU 307 SWD, API 30-045-24248 (Liquids) i.
- BP Operated GCU 328 SWD, API 30-045-24735 (Liquids) i.
- 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.

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.

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

Constituents	Testing Method	Release Verification	Sample
	45 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.021
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.085
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	15
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 except TPH. The field report and laboratory reports are attached.

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

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

Sampling results indicate a release has occurred but is below regulatory standards. 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 but is below regulatory standards. 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 District I 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

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										al Report			
Name of Company BP America Production Company Contact Erin Garifalos Tolorboro No. (202), 500, 7049													
Address 200 Energy Court, Farmington, NM 87401 Telephone No. (832) 609-7048 Facility Name STATE GC CB 001E Facility Type: Natural Gas Well													
Surface Owner: State Mineral Owner: State API No.3004525297													
Surface Ow	ner; Stat	e		-					APINO	.300432	25297		
** ** *	G :	T 1:	D			OF REI		F + //	West Line	Country			
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	We		County	San J	uan	
E	32	30N		1,700	Nor		950	VVE	St		Jan o	uan	
Latitude 36.77090 Longitude -107.80964 NAD83													
				NAT	URE	OF RELI	EASE						
Type of Rele	ase:: none	9				Volume of	Release:: unkno			Recovered::			
Source of Re	lease: belo	w grade ta	nk - 45	bbl		Date and H	our of Occurrence	ee:	Date and n/a	Hour of Dis	covery:		
Was Immedia		Given?				If YES, To	Whom?		1114				
			Yes ✓	No Not Re	equired								
By Whom? Was a Water	Dourse Page	shed?				Date and H	our lume Impacting t	he Wat	ercourse				
was a water	course Read		Yes 🗸	No		II ILS, VO	rume impacting t	iic wai	creourse.				
If a Watercou	irse was Im	pacted, Descr	ibe Fully.*										
Describe Cou	se of Probl	em and Deme	dial Action	Taken *									
Describe Cat	ise of Flobi	em and Keme	ulai Actioi	Taken.* Sampli	ng of th	ne soil benea	ath the BGT was elow BGT closu	s done	during ren	noval. Soil	analysis re	sulted	
							elines. Field repo					-	
Describe Are	a Affected	and Cleanup A	Action Tak	en.* The rele	ase w	ill be add	ressed follo	wina	the spil	l and rel	ease		
							tory analysi						
				o .			, ,						
				is true and comp									
				nd/or file certain re se of a C-141 repo									
should their o	perations h	nave failed to a	adequately	investigate and re	emediate	e contaminati	on that pose a thr	eat to g	round water	r, surface wa	ater, human	health	
		addition, NMC ws and/or regu		tance of a C-141	report de	oes not reliev	e the operator of	respons	ibility for c	ompliance v	vith any oth	er	
rederal, state,	or local la	vis una or rege	introlls.				OIL CON	SERV	ATION	DIVISIO	N		
l	run a	orifale	4										
Signature:	. 0	U				Approved by	Environmental S	pecialis	t:				
Printed Name	Erin C	arifalos				11							
		onmenta		rdinator	1	Approval Dat	e:		Expiration	Date:			
		garifalos				Conditions of							
Date: Marc	h 30, 20	18	Phone:	(832) 609-70	Attached								

^{*} Attach Additional Sheets If Necessary

bp



BP America Production Company 380 Airport Rd Durango, CO 81303

Phone: (970) 247 6800

January 22, 2018

State Land Office Brandon Foley PO Box 3170 Farmington, NM 87402

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: STATE GAS COM GB 001E

API #: 3004525297

Dear Mr. Foley,

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 January 25, 2018. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

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

Sincerely,

Erin Garifalos

BP America Production Company

From:

Buckley, Farrah (CH2M HILL)

To:

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

Cc:

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

Subject:

BP Pit Close Notification - STATE GAS COM CB 001E

Date:

Monday, January 22, 2018 4:19:55 PM

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>; VANESSA.FIELDS@STATE.NM.US

January 22, 2018

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

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

STATE GAS COM CB 001E API 30-045-25297 (E) Section 32 – T30N – R09W 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 21bbl and a 45bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around January 25, 2018.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator – San Juan

Cell: 832-609-7048

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

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

CLIENT:	BLAGG E P.O. BOX 87, B	API #: 300452 TANK ID (if applicble):	25297 A								
FIELD REPORT: (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: PAGE #: 1 of											
SITE INFORMATION: SITE NAME: STATE GC CB #1E DATE STARTED: 01/26/18											
QUAD/UNIT: E SEC: 32 TWP: 30N RNG: 9W PM: NM CNTY: SJ ST: NM DATE FINISHED:											
1/4 -1/4/FOOTAGE: 1,700'N / 950'W SW/NW LEASE TYPE: FEDERAL STATE FEE / INDIAN ENVIRONMENTAL											
		STRIKE ONTRACTOR: BP - J. GONZ			NJV						
REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: 36.77098 X 107.80934 GL ELEV.: 5,814'											
1) 45 BGT (SW/DB) - A GPS COORD:: 36.77090 X 107.80964 DISTANCE/BEARING FROM WH.: 94.5', S73W											
2)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:							
3)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:							
4)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:							
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # 0	OR LAB USED: HALL			OVM READING						
1) SAMPLE ID: 5PC - TB @ 5' (4			ANALYSIS: 80°	15B/8021B/300.0 (CI)	(ppm) NA						
2) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB	ANALYSIS:								
3) SAMPLE ID:	SAMPLE DATE:		ANALYSIS:								
4) SAMPLE ID: 5) SAMPLE ID:	SAMPLE DATE:SAMPLE DATE:	SAMPLE TIME: LAB	ANALYSIS:								
SOIL DESCRIPTION											
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY COHESIVE / COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD HC ODOR DETECTED: YES NO EXPLANATION - MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED SAMPLE TYPE: GRAB COMPOSITE # OF PTS. 5 ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION - DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION - APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES NO EXPLANATION: EQUIPMENT SET OVER RECLAIMED AREA: YES NO EXPLANATION - 105 BBL SHALLOW LOW PROFILE ABOVE-GRADE TANK TO BE SET ATOP BGT LOCATION.											
EXCAVATION DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: >100' N	NA ft. X NA IEAREST WATER SOURCE: >1,000			FIMATION (Cubic Yards) :	NA 1,000ppm						
SITE SKETCH	BGT Located: off on sit	te PLOT PLAN circle:	attached	CALIB. READ. = NA	_ppm						
				CALIB. GAS = NA : NA am/pm DATE:	ppm NA						
		⊕ w .н.		MISCELL. NO /0: EF#: P-919	OTES						
BERM VID: VHIXONEVB2											
PJ#:											
(45)-A Permit date(s): 06/14/10											
T.B. ~ 5' OCD Appr. date(s): 01/05/18											
Tank OVM = Organic Vapor Meter											
FENCE A BGT Sidewalls Visible: Y / N											
X - S.P.D. BGT Sidewalls Visible: Y / N											
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELE APPLICABLE OR NOT AVAILABLE; SW-SINGLE	OW-GRADE TANK LOCATION; SPD = SAMPLE F	ELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. POINT DESIGNATION; R.W. = RETAINING WAL	= WELL HEAD;	BGT Sidewalls Visible: Yagnetic declination:	0						
NOTES: GOOGLE EARTH IMAGE		ONSITE: 01/26/18									

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

Analytical Report

Lab Order 1801D04

Hall Environmental Analysis Laboratory, Inc. Date Reported: 1/31/2018

CLIENT: Blagg Engineering

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

Project: STATE GC CB 1E

Collection Date: 1/26/2018 12:15:00 PM

Lab ID: 1801D04-001 Matrix: MEOH (SOIL) Received Date: 1/27/2018 10:05:00 AM

Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	CJS
Chloride	ND	30	mg/Kg	20	1/29/2018 11:20:28 AM	36235
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst:	TOM
Diesel Range Organics (DRO)	15	9.5	mg/Kg	1	1/29/2018 10:39:37 AM	36231
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/29/2018 10:39:37 AM	36231
Surr: DNOP	103	70-130	%Rec	1	1/29/2018 10:39:37 AM	36231
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst:	AG
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	1/29/2018 10:27:35 AM	G48753
Surr: BFB	91.6	15-316	%Rec	1	1/29/2018 10:27:35 AM	G48753
EPA METHOD 8021B: VOLATILES					Analyst:	AG
Benzene	ND	0.021	mg/Kg	1	1/29/2018 10:27:35 AM	B48753
Toluene	ND	0.043	mg/Kg	1	1/29/2018 10:27:35 AM	B48753
Ethylbenzene	ND	0.043	mg/Kg	1	1/29/2018 10:27:35 AM	B48753
Xylenes, Total	ND	0.085	mg/Kg	1	1/29/2018 10:27:35 AM	B48753
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	1/29/2018 10:27:35 AM	B48753

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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 6 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Chain-of-Custody Record				Turn-Around	me:	SAME				Н	IΔI		FI	NV	TE	20	NI P	ME	NT	CAI		
Cilent: BLAGG ENGR. / BP AMERICA				Standard Project Name	☑ Rush _	DAY				A	N.	AL	YS	SIS	S L	A	30	RA	ATO		-	
Mailing Address: P.O. BOX 87 BLOOMFIELD, NM 87413				STATE GC CB #1E					www.hallenvironmental.com													
			3	Project #:				4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107														
Phone #:		(505) 63	2-1199					-					-	-	-		lues	-		77 67		
email or f	ax#:				Project Manag	jer.									~				1)	T	T	
QA/QC Pa			Level 4 (Full)	/alidation)		ERIN GARI	FALOS	(80218)	(Ajuo	MRO)			(5)		05,50	PCB's			er - 300.1)			a)
Accreditat	tion:				Sampler:	NELSON VI		H- (B)	MTBE + TPH (Gas	IRO /	1	1	8270SIMS)		102,	8083			, water			du
□ NELAF		□ Other			On Ice:	≥ Yes	□ No 771	1	TPH	0/0	418	504	827	S	03,1	/ 52		(AC	0.00			S S
□ EDD (Type)	T			Sample Temp	erature: D.S.+	p.200=1.0	#	BE +	(GR	pou	pou	00	eta	CI,N	icide	(AC)i-V	10		90	Z Sus
Date	Time	Matrix	Sample Re	quest ID	Container Type and #	Preservative Type	HEAL No. 1801D04	BTEX + WITH	BTEX + MT	TPH 8015B (GRO / GRO / MRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 /			5 pt. composite sample Air Bubbles (Y or N)
1/26/18	1215	SOIL	SPC-TB@	(45)-A	4 02 1	Cool	601	٧		٧									٧			٧
																					\perp	
1/26/10	1530	SOIL	50 TB @ ((21) 8	4011	Cool	002	4		4									4	\Rightarrow	\Rightarrow	V
												_										
Date: Time: Relinquished by:			Received by:	, dit	Date Time		ONTA		BILL D & REF ERIN	EREN	CE#V	WHEN	APP	LICAE	ILE;		VITHC	ORRES	PONE	DING VID		
Date:	Time:	Relinquish		- 4	Received by:		Date Time	١			VHIX				171	104						
THE 1832 FIANT WALL			Med Wind		1500	ourier	1/27/18 INS	Ref	eren	ce#	_	P-9	919									

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1801D04 31-Jan-18

Client: Blagg Engineering
Project: STATE GC CB 1E

Sample ID MB-36235 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 36235 RunNo: 48756

Prep Date: 1/29/2018 Analysis Date: 1/29/2018 SeqNo: 1569479 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-36235 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 36235 RunNo: 48756

Prep Date: 1/29/2018 Analysis Date: 1/29/2018 SeqNo: 1569480 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.0 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 6

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1801D04

31-Jan-18

Client: Project: Blagg Engineering STATE GC CB 1E

Sample ID LCS-36231

SampType: LCS

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

70

70

LowLimit

70

Client ID: LCSS Batch ID: 36231

RunNo: 48751

Prep Date: 1/29/2018

10

Units: mg/Kg

130

130

Analysis Date: 1/29/2018

SegNo: 1568685

Analyte Diesel Range Organics (DRO) Result PQL 49 4.8

SPK value SPK Ref Val %REC LowLimit 98.9

HighLimit

RPDLimit Qual

Surr: DNOP

Sample ID MB-36231

SampType: MBLK Batch ID: 36231

PQL

RunNo: 48751

95 9

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

%RPD

%RPD

%RPD

Client ID: Prep Date:

PBS 1/29/2018

Analysis Date: 1/29/2018

10.00

47.66

4.766

47.48

4.748

SPK value SPK Ref Val

50.00

5.000

SeqNo: 1568686

Units: mg/Kg

RPDLimit

Qual

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

ND 10 ND 50

SPK value SPK Ref Val %REC

SPK Ref Val

15.44

15.44

101

130

HighLimit

Client ID:

Prep Date:

Surr: DNOP

Analyte

Sample ID 1801D04-001AMS

SampType: MS

Result

10

Result

9.5

Batch ID: 36231

PQL

9.5

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

RunNo: 48751

5PC-TB@ 5' (45)-A Batch ID: 36231 Analysis Date: 1/29/2018

Units: mg/Kg

Analyte Diesel Range Organics (DRO) Surr: DNOP

Client ID:

Prep Date:

PQL SPK value SeqNo: 1568812 %REC

102

100

HighLimit

RPDLimit

Qual

Qual

Sample ID

1801D04-001AMSD 5PC-TB@ 5' (45)-A

1/29/2018

SampType: MSD

64

4.8

TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 48751

55.8

70

LowLimit

Units: mg/Kg

125

130

RPDLimit

Analyte Diesel Range Organics (DRO) Surr: DNOP

1/29/2018

Analysis Date: 1/29/2018

64

4.8

Result

SeqNo: 1568813

102

102

%REC

LowLimit 55.8

70

HighLimit 125 130 %RPD

20 0.286 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 4 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Result

21

990

PQL

5.0

WO#:

1801D04

31-Jan-18

Client:	Blagg Engineering
Project:	STATE GC CB 1E

Project:	STATE C	C CB 1E											
Sample ID	1801D04-001AMS	SampTyp	e: MS	S	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e			
Client ID:	5PC-TB@ 5' (45)-A	-TB@ 5' (45)-A Batch ID: G48753					RunNo: 48753						
Prep Date:		Analysis Date	e: 1 /	29/2018	5	SeqNo: 1	569229	Units: mg/k	(g				
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	ge Organics (GRO)	20	4.3	21.28	0	94.4	77.8	128					
Surr: BFB		880		851.1		104	15	316					
Sample ID 1801D04-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range													
Client ID:	5PC-TB@ 5' (45)-A	Batch IE): G 4	8753	F	RunNo: 48753							
Prep Date:	ate: Analysis Date: 1/29/2018					SeqNo: 1	569230	Units: mg/Kg					
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	ge Organics (GRO)	20	4.3	21.28	0	94.2	77.8	128	0.170	20			
Surr: BFB		900		851.1		105	15	316	0	0			
Sample ID	RB	SampType	e: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID:	PBS	Batch ID): G 4	8753	RunNo: 48753								
Prep Date:		Analysis Date	e: 1/	29/2018	S	SeqNo: 1	569231	Units: mg/K	(g				
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	ge Organics (GRO)	ND	5.0										
Surr: BFB		910		1000		91.2	15	316					
Sample ID	2.5UG GRO LCS	SampType	e: LC	S	Tes	Code: El	PA Method	8015D: Gaso	line Rang	e			
Client ID:	LCSS	Batch ID): G 4	8753	R	tunNo: 4	8753						
Prep Date:		Analysis Date	e: 1/	29/2018	S	eqNo: 1	570600	Units: mg/K	(g				

SPK value SPK Ref Val

0

25.00

1000

Qualifiers:

Analyte

Surr: BFB

Gasoline Range Organics (GRO)

* 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

%REC

84.3

98.9

LowLimit

75.9

15

HighLimit

131

316

%RPD

RPDLimit

Qual

J Analyte detected below quantitation limits

Page 5 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1801D04**

31-Jan-18

Client:	Blagg Engineering								
Project:	STATE GC CB 1E								

Sample ID 100NG BTEX LCS	SampTy	pe: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	ID: B4	8753	RunNo: 48753						
Prep Date:	p Date: Analysis Date: 1/29/2018			S	SeqNo: 1					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.6	77.3	128			
Toluene	0.87	0.050	1.000	0	86.9	79.2	125			
Ethylbenzene	0.87	0.050	1.000	0	86.6	80.7	127			
Xylenes, Total	2.6	0.10	3.000	0	85.7	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID RB	TestCode: EPA Method 8021B: Volatiles										
Client ID: PBS	Batch	n ID: B4	8753	F	RunNo: 4						
Prep Date:	Analysis Date: 1/29/2018			S	SeqNo: 1	569268	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120				

Sample ID 1801D04-002AM	801D04-002AMS SampType: MS				TestCode: EPA Method 8021B: Volatiles							
Client ID: 5PC-TB@ 6' (21)	D: 5PC-TB@ 6' (21)-B Batch ID: B48753					RunNo: 48753						
Prep Date:	SeqNo: 1569272 Units: mg/Kg											
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.60	0.019	0.7407	0	80.5	80.9	132			S		
Toluene	0.58	0.037	0.7407	0	78.3	79.8	136			S		
Ethylbenzene	0.57	0.037	0.7407	0	76.3	79.4	140			S		
Xylenes, Total	1.7	0.074	2.222	0	76.4	78.5	142			S		
Surr: 4-Bromofluorobenzene	0.87		0.7407		118	80	120					

Sample ID 1801D04-002AMSI	1801D04-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles												
Client ID: 5PC-TB@ 6' (21)-E	Client ID: 5PC-TB@ 6' (21)-B Batch ID: B48753						RunNo: 48753						
Prep Date:	S	SeqNo: 1											
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.88 0	.019	0.7407	0	119	80.9	132	38.7	20	R			
Toluene	0.88 0	.037	0.7407	0	118	79.8	136	40.8	20	R			
Ethylbenzene	0.85 0	.037	0.7407	0	114	79.4	140	39.8	20	R			
Xylenes, Total	2.5 0	.074	2.222	0	113	78.5	142	38.4	20	R			
Surr: 4-Bromofluorobenzene	0.88		0.7407		118	80	120	0	0				

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 6 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Gall Enviconmental Analysis Loboratory 1901 Hankas NE Minguergue NM 87169 PQ - 305-345-3975 F.A.F. 305-345-4107 Websiter with halfenviconmental com-

Sample Log-In Check List

-					-					
Client Name.	BLAGG		Work Or	der Numb	er. 180	1D04			Rq	ptNo: 1
Received By:	Erin Mele	ndrez	1/27/2018	10:09:00	AM		VL_V		7	
Completed By:	Dennis Si	1870	1/29/2018	3:13:06 A	M		723			
Reviewed By.	-NH	i i	1/29/	118			,	-		
Newswed by	4 41	•	16-11							
Chain of Custo	ndv									
1. Is Chain of Gus		loto 2			U au		110		Not Present	
					Y 25		110		Little L L Barrie	Hyman
2. How was the si	ample dešv	ered?			Cou	ner				
Log In										
3. Was an attemp	i made to c	ool the sample	esi		Yes	V	No _		NA	-
4. Were all sample	es received	at a temperat	ure of >0°C to 6	0°C	Yes	V	No		NA	
Sample(s) in or	roper contai	ner(s)?			Yes	~	No			
						-	-	neser .		
Sufficient sample	le volume fe	or indicated te	st(s)?		Yes		No			
7. Are samples (ex		Yes	~	No L			_			
8 Was preservativ	ve added to	bottles?			Yes		No M		NA	
9 VOA vials have	zero heads	pace?			Yes		No		No VOA Vials	V
IO_Were any samp			nken?		Yes	1.1	No Y	1		
(O_ i i i i o o i i o o i i o	or correcting				1 43			kerd.	# of preserved	
11. Does paperwork	k match bot	tle labels?			Yes	~	No		bottles checked for pH	
(Note discrepan									(-	<2 or >12 unless noted)
12 Are mainces con	rrectly ident	ified on Chair	of Custody?		Yes	V	No		Adjusted?	
13 Is it clear what a	malyses we	re requested?	,		Yes	V	No			
14. Were all holding	times able	to be met?			Yes	V	No		Checked b	y;
(If no, notify cus	tomer for a	uthorization.)								
Special Handlin	ng (if app	licable)								
15. Was client notif	fied of all dis	screpancies w	ith this order?		Yes		No _	1	NA	✓
Person N	otified:		Historia atta empera arra ethiolistika e	Date:	PRODUCTOR STANDARD STANDARDS					
By Whom	1:	-	······································	Via:	eMa	5il	Phone F	ax	In Person	
Regarding	g:				-					-
Client Inst	tructions:									
16 Additional rema	arks:									
17 Poplariate	- Hair									
Cooler Information Cooler No	Temp °C	Condition	Sear Intact Se	al No	Seal Da	ata I	Signed By	. 1		
- Children and Committee of the Committe	1.0	-	Not Present	FILLIAD	Ocel Di	ne	cargined by			
100		7.77						1		



