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

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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.

Form C-144 Revised April 3, 2017

1220 South St. Francis Dr. Santa Fe, NM 87505

Pit, Below-Grade Tank, or	
Proposed Alternative Method Permit or Closure Plan A	pplication

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: DRYDEN LS 003A							
API Number: 3004523770 OCD Permit Number:							
U/L or Qtr/Qtr I Section 21 Township 28N Range 08W County: San Juan							
Center of Proposed Design: Latitude 36.64431 Longitude -107.68029 NAD83							
Surface Owner: ■ Federal □ State □ Private □ Tribal Trust or Indian Allotment							
Pit: Subsection F, G or J of 19.15.17.11 NMAC   FEB 2 7 2018     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							
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 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.							
F . C1 D . C10.15.17.11.2D4.4.C / 4							
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)							
☐ 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,							

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						
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 accematerial 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	☐ 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.	☐ Yes ☐ No					
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image						
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					

Within 100 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No									
Temporary Pit Non-low chloride drilling fluid										
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No									
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No									
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site										
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										
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 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC										
Previously Approved Design (attach copy of design) API Number: or Permit Number:										
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:										

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   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 <sub>2</sub> 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	documents are							
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Falternative  Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit							
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC								
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  Ground water is between 25-50 feet below the bottom of the buried waste	☐ Yes ☐ No ☐ NA ☐ Yes ☐ No							
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> <li>Ground water is more than 100 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> </ul>	☐ NA ☐ Yes ☐ No ☐ NA							
- NM Office of the State Engineer - IWATERS database search; USGS; Data obtained from nearby wells  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	☐ 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								

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							
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>								
Within a 100-year floodplain FEMA map  Yes No								
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC							
17.  Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.							
Name (Print): Title:								
Signature: Date:								
e-mail address:								
18.  OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)  OCD Representative Signature: Approval Date: 2.2  Title: OCD Permit Number:	\$12018							
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date: 12/29/2017								
Closure Method:  Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-lo If different from approved plan, please explain.	op systems only)							
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in mark in the box, that the documents are attached.  Proof of Closure Notice (surface owner and division)  Proof of Deed Notice (required for on-site closure for private land only)  Plot Plan (for on-site closures and temporary pits)  Confirmation Sampling Analytical Results (if applicable)  Waste Material Sampling Analytical Results (required for on-site closure)  Disposal Facility Name and Permit Number	dicate, by a check							

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 at							
belief. I also certify that the closure complies with all applicable	le closure requirements and conditions specified in the approved closure plan.						
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator						
erin garifialos							
Signature:	Date: February 23, 2018						
	(000) 000 7040						
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

#### DRYDEN LS 003A

API No. 3004523770

Unit Letter I Section 21 T 28N R 08W

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

### **General Closure Plan**

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

#### Notice is attached.

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

#### Notice was provided and is attached.

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

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

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

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

## The BGT was transported for recycling.

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

### All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.017
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.069
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<48
Chlorides	US EPA Method 300.0 or 4500B	620	<30

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

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

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

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

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

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

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

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

The area has been backfilled and 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 II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised April 3, 2017

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

	ii uiiu C	orrective A	Cuon						
	OPERA'	ГOR		Initia	l Report Final Report				
Name of Company BP America Production Company	Contact Eri	n Garifalos							
Address 200 Energy Court, Farmington, NM 87401	Telephone No. (832) 609-7048								
Facility Name DRYDEN LS 003A	Facility Typ	e: Natural Ga	as Well						
Surface Owner: Federal Mineral Owner	: Federal		A	API No.	3004523770				
LOCATIO	ON OF RE	LEASE							
Unit Letter   Section   Township   Range   Feet from the   Nort	h/South Line	Feet from the	East/West	t Line	County				
I   21   28N   08W   1,790   So	uth	950	East		San Juan				
Latitude 36.64431	Longitude1	07.68029	NAD83						
NATURE OF RELEASE									
Type of Release:: none		Release:: unkno			ecovered:: N/A				
Source of Release: below grade tank - 95 bbl	Date and F	Iour of Occurrence	e: Da		Hour of Discovery:				
Was Immediate Notice Given?	If YES, To	Whom?	11/0						
☐ Yes ☑ No ☐ Not Required	d l								
By Whom?	Date and H								
Was a Watercourse Reached?  ☐ Yes ☑ No	If YES, Vo	olume Impacting t	the Waterco	urse.					
If a Watercourse was Impacted, Describe Fully.*									
The Watercourse Was Impacted, Desertee Lang.									
Describe Cause of Problem and Remedial Action Taken.*	of the soil	heneath the	BGT w	as do	ne during removal.				
					d TPH below BGT				
			-	-	y results are attached.				
	.arraaraar	Tota reporte	arra rab	orator	y roodito are attacrica.				
Describe Area Affected and Cleanup Action Taken.* No action ne	cessary. F	inal laborate	ory analy	ysis d	etermined no				
remedial acti	on is requ	ired.							
I hereby certify that the information given above is true and complete to	the best of my	knowledge and u	nderstand th	nat pursi	uant to NMOCD rules and				
regulations all operators are required to report and/or file certain release									
public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedia	he NMOCD mate contaminati	arked as "Final Ro on that pose a thre	eport" does eat to groun	not relied water.	surface water, human health				
or the environment. In addition, NMOCD acceptance of a C-141 report									
federal, state, or local laws and/or regulations.		OH COM	CEDIA	CIONI	DIVICION				
Attin a March Day		OIL CONS	SERVAI	IION .	DIVISION				
Signature:									
Signature:	Approved by	Environmental S <sub>I</sub>	pecialist:						
Printed Name: Erin Garifalos									
	Approval Date: Expiration Date:								
Title: Field Environmental Coordinator	Approval Dat	e:	Expi	iration L	Pate:				
E-mail Address: erin.garifalos@bp.com	Approval Dat		Expi	iration L	Oate:  Attached				

<sup>\*</sup> Attach Additional Sheets If Necessary

# bp



BP America Production Company 200 Energy Court Farmington, NM 87401

December 19, 2017

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

#### VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: DRYDEN LS 003A

API#: 3004523770

Dear Mrs. Thomas,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about December 26, 2017. If there aren't any unforeseen problems, the work should be completed within 10 working days.

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

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

Sincerely,

Erin Garifalos

BP America Production Company

From:

Buckley, Farrah (CH2M HILL)

To:

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

Cc:

ieffcblagg@aol.com; blagg\_niv@yahoo.com; Garifalos, Erin

Subject: Date:

RE: BP Pit Close Notification - DRYDEN LS 003A Friday, December 22, 2017 9:04:41 AM

The work on this site is scheduled for Tuesday, December 26th at 2:30pm.

Thanks.

Farrah

From: Buckley, Farrah (CH2M HILL)

Sent: Tuesday, December 19, 2017 3:53 PM

**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 - DRYDEN LS 003A

#### **BP America Production Company**

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

### SENT VIA E-MAIL TO: CORY.SMITH@STATE.NM.US; VANESSA.FIELDS@STATE.NM.US

December 19, 2017

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

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

> DRYDEN LS 003A API 30-045-23770 (I) Section 21 – T28N – R08W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around December 26, 2017.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator – San Juan Cell: 832-609-7048

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

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

CLIENTE BP	C. 1 87413	API #: 300452	_		
	(50	5) 632-1199		(if applicble):	Α
FIELD REPORT:	(circle one): BGT CONFIRMATION	/ RELEASE INVESTIGATION / O	THER:	PAGE #:1_	of
SITE INFORMATION	I: SITE NAME: DRYDE	N LS #3A		DATE STARTED: 12	/26/17
QUAD/UNIT:   SEC: 21 TWP:	28N RNG: 8W PM:	NM CNTY: SJ	ST: NM	DATE FINISHED:	
1/4-1/4/FOOTAGE: 1,790'S / 950	D'E NE/SE LEASE 1	TYPE: FEDERAL STATE /	FEE / INDIAN	ENVIRONMENTAL	
LEASE #: NM012200	PROD. FORMATION: MV/CHA C	STRIKE ONTRACTOR: BP - J. GO	NZALES	SPECIALIST(S):	NJV
REFERENCE POINT	WELL HEAD (W.H.) GPS	36.6445	3 X 107.68067	GL ELEV.:	5,861'
1) 95 BGT (SW/DB)	GPS COORD.: 36	5.64431 X 107.68029	DISTANCE/BEA	RING FROM W.H.: 138',	S55E
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 (ppm)
1) SAMPLE ID: 5PC - TB @ 5'	(95) SAMPLE DATE: 12/26	6/17 SAMPLETIME:1455	LAB ANALYSIS:80°	15B/8021B/300.0 (CI)	NA
2) SAMPLE ID:			LAB ANALYSIS:		
SAMPLE ID:      SAMPLE ID:					
5) SAMPLE ID:	SAMPLE DATE:				
SOIL DESCRIPTION	SOIL TYPE SAND SILTY SAND	SILT / SILTY CLAY / CLAY / GRAVE	I / OTHER		
	LOWISH ORANGE	PLASTICITY (CLAYS): NON PLASTIC		OHESIVE / MEDIUM PLASTIC / HI	GHLY PLASTIC
COHESION (ALL OTHERS): NON COHESIVE SLIGHTL		DENSITY (COHESIVE CLAYS &			
CONSISTENCY (NON COHESIVE SOILS): LC		HC ODOR DETECTED: YES NO	EXPLANATION -		
MOISTURE: DRY/SLIGHTLYMOIST/MOIST/W SAMPLE TYPE: GRAB/COMPOSITE.		ANY AREAS DISPLAYING WETNES	OC. VEG FIO EVDI AN	NATION	
DISCOLORATION/STAINING OBSERVED: YES		ANY AREAS DISPLAYING WE INES	SS: YES NO EXPLAI	NATION -	
SITE OBSERVATION		: YES NO EXPLANATION -			
APPARENT EVIDENCE OF A RELEASE OBSERVE	ED AND/OR OCCURRED : YES NO EXPL	ANATION:			
EQUIPMENT SET OVER RECLAIMED AREA: OTHER: NMOCD OR BLM REPS. NOT PROBLEM OF THE P			ABOVE-GRADE TA	NK TO BE SET ATOP BG	LOCATION.
OTHER NINOCO ON BLIM REPS. NOT PI	RESERT TO WITHESS CONFIRMA	KTION SAMPLING.			
EXCAVATION DIMENSION ESTIMATION:	101	ft. X NA ft.		TIMATION (Cubic Yards) :	NA
	IEAREST WATER SOURCE: >1,000	NEAREST SURFACE WATER:	<1,000' NMOC	DD TPH CLOSURE STD: 1	,000 ppm
SITE SKETCH	BGT Located: off on sit	e PLOT PLAN circ	le: attached OVM	CALIB. READ. = NA	_ppm   RF = 1.00
ТО			<b>↑</b> OVM	CALIB. GAS = NA	ppm
W.H.			N TIME	: NA am/pm DATE: _	NA
COMPRESSOR	₹—➤ SEPA	RATOR	'_	MISCELL. NO	TES
			l w	VO:	
		PBGTL :B. ~ 5'	R	EF#: <b>P-908</b>	
	REDM (XXX)	B.G.	<u>v</u>	ID: VHIXONEVE	32
	BERM		P	J#:	
			_		14/10
l la	PROD. TANK	STEEL	O		07/17 Meter
	<b>←</b> C	ONTAINMENT RING	II.	ppm = parts per million	1
			( a B B   A	BGT Sidewalls Visible: Y BGT Sidewalls Visible: Y	
NOTES, DOT - DELONIODADE TANK E.S. EVONUT	ON DEDDECOION, D.O DELOWARDERS S. S.		( - S.P.D.	BGT Sidewalls Visible: Y	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL	ON DEPRESSION;		TOUR THE MAN		10°E
APPLICABLE OR NOT AVAILABLE; SW - SINGLI	E WALL; DW - DOUBLE WALL; SB - SINGLE BOT	TOM; DB - DOUBLE BOTTOM.	10	agricuo decimation.	- L
NOTES: GOOGLE EARTH IMAGI	ERY DATE: 10/5/2016.	ONSITE: 12/26/1	17		

#### **Analytical Report**

#### Lab Order 1712E51

Date Reported: 12/29/2017

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

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

Project: Dryden LS 3A

Collection Date: 12/26/2017 2:55:00 PM

Lab ID: 1712E51-001

Matrix: MEOH (SOIL) Received Date: 12/27/2017 7:30:00 AM

Analyses	alyses Result PQL Qual Units		DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	st: MRA
Chloride	ND	30	mg/Kg	20	12/27/2017 12:30:05	PM 35727
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analy	st: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/27/2017 1:11:18 F	M 35726
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/27/2017 1:11:18 F	M 35726
Surr: DNOP	108	70-130	%Rec	1	12/27/2017 1:11:18 F	M 35726
EPA METHOD 8015D: GASOLINE RAN	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	12/27/2017 11:26:42	AM 35687
Surr: BFB	79.9	15-316	%Rec	1	12/27/2017 11:26:42	AM 35687
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.017	mg/Kg	1	12/27/2017 11:26:42	AM 35687
Toluene	ND	0.035	mg/Kg	1	12/27/2017 11:26:42	AM 35687
Ethylbenzene	ND	0.035	mg/Kg	1	12/27/2017 11:26:42	AM 35687
Xylenes, Total	ND	0.069	mg/Kg	1	12/27/2017 11:26:42	AM 35687
Surr: 4-Bromofluorobenzene	93.4	80-120	%Rec	1	12/27/2017 11:26:42	AM 35687

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

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Stace Stace (Sp. Anti-Stace)			Turn-Around	Time:  ☑ Rush _	SAME DAY	L		H								-	ME RA				
				Project Name:											nme						_
Mailing Ad	ddress:	P.O. BO	X 87		RYDEN LS	# 3A		49	01 H									7109	1		
	BLOOMFIELD, NM 87413				Project #:				el. 50						505						
Phone #:		(505) 63	32-1199				l W						-	<b>COLUMN</b>	Red		THE RESERVE	16			
email or F	ax#:			Project Manag	jer:													1			Т
QA/QC Pad Standa	_		Level 4 (Full Validation)		NELSON VI	LEZ	₩ (8021B)	only)	MRO)			lS)		04,50	PCB's			er - 300.1)			a
Accreditat	ion:			Sampler:	<b>NELSON VE</b>	LEZ	)E	(Gas	RO/	1	1)	SIN		02,1	3082			water		- 1	sample
□ NELAP		□ Other		(E) process as the	X Yes		1	TPH	0/0	418.	504.	8270		O <sub>3</sub> ,N	8/8		(A)	0.00			e Sa
□ EDD (T	ype)			Sample Temp	eranure (\$2.23		#	# #	(GR(	poc	pot	or	etal	Z,	icide	(A)	i-V	oil-3		e .	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +**	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 /		Grab sample	5 pt. composite
12/26/17	1455	SOIL	5PC-TB@ 5 (95)	4 oz 1	Cool	-001	٧		٧									٧			٧
																				1	T
																					$\top$
																				$\top$	$\top$
																			$\top$	$\top$	$\top$
																			$\top$		$\top$
																				$\top$	十
																			$\dashv$	$\top$	+
																			+	$\top$	+
																			$\dashv$	+	+
																			$\dashv$	+	+
										_	_								$\dashv$	$\dagger$	+
Date: 12/26/17	Time: 11020	Relinquish	Mer Vj	Received by:	Lhut	Date Time		narks		& RE	FEREN	ICE#	WHE	N APP	LICA	BLE;		VITH C	ORRES	POND	NING '
Date: 2/21/17	Time:	Relinquishe	ed by:	Received by:		Date Time ./27/17 0730		feren		_	P -	908									

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1712E51

29-Dec-17

Client:

Blagg Engineering

Project:

Dryden LS 3A

Sample ID MB-35727

SampType: mblk

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 35727

RunNo: 48035

Prep Date: 12/27/2017

Sample ID LCS-35727

LCSS

Analysis Date: 12/27/2017 PQL

1.5

SeqNo: 1540826

Units: mg/Kg

Analyte

Client ID:

Prep Date:

Result ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

**RPDLimit** 

Qual

Chloride

SampType: Ics

Batch ID: 35727

RunNo: 48035

SeqNo: 1540827

Units: mg/Kg

Qual

Analyte

12/27/2017

Analysis Date: 12/27/2017

SPK value SPK Ref Val %REC

96.6

LowLimit

HighLimit %RPD

Chloride

14

0

90

PQL 1.5

Result

110

15.00

**RPDLimit** 

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded H Not Detected at the Reporting Limit ND

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

Value above quantitation range Analyte detected below quantitation limits J

P Sample pH Not In Range

RL Reporting Detection Limit Sample container temperature is out of limit as specified Page 2 of 5

## Hall Environmental Analysis Laboratory, Inc.

4.7

WO#:

1712E51

29-Dec-17

Client:

Blagg Engineering

Project:

Surr: DNOP

Dryden LS 3A

Sample ID LCS-35726	SampType: LCS	3	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 357	26	R	RunNo: 4	8027				
Prep Date: 12/27/2017	Analysis Date: 12/	27/2017	S	SeqNo: 1	539266	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48 10	50.00	0	95.6	73.2	114			

5.000

Sample ID MB-35726	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	ID: 35	726	RunNo: 48027							
Prep Date: 12/27/2017	Analysis D	Analysis Date: 12/27/2017			SeqNo: 1539267			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	<b>RPDLimit</b>	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									

93.4

70

130

#### 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 5

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1712E51

29-Dec-17

Client:

Blagg Engineering

Project:

Dryden LS 3A

Sample ID MB-35687

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Batch ID: 35687

RunNo: 48031

Prep Date: 12/22/2017

SeqNo: 1539740

83.5

Units: mg/Kg HighLimit

Analyte

Result PQL

Analysis Date: 12/27/2017

Gasoline Range Organics (GRO)

ND 830

1000

SPK value SPK Ref Val

%REC LowLimit

316

%RPD

Qual

Surr: BFB Sample ID LCS-35687

Prep Date: 12/22/2017

SampType: LCS

0

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 35687 Analysis Date: 12/27/2017 RunNo: 48031 SeqNo: 1539741

LowLimit

15

Units: mg/Kg

**RPDLimit** 

Analyte Gasoline Range Organics (GRO) Result

PQL SPK value SPK Ref Val 5.0

25.00

108

75.9 131 %RPD **RPDLimit** Qual

Surr: BFB

27 960

1000

96.3

%REC

15

316

HighLimit

#### Qualifiers:

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

Page 4 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1712E51 29-Dec-17

Client:

Blagg Engineering

**Project:** 

Dryden LS 3A

Sample ID MB-35687	SampT	уре: МЕ	BLK	Tes						
Client ID: PBS	Batch ID: 35687			F	RunNo: 4	8031				
Prep Date: 12/22/2017	Analysis D	Date: 12	2/27/2017	8	SeqNo: 1	539781	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	0.96		1.000		96.5	80	120			

Sample ID LCS-35687	SampT	SampType: LCS TestCode: EPA Method						tiles			
Client ID: LCSS	Batch	ID: 35	687	R	RunNo: 4	8031					
Prep Date: 12/22/2017	Analysis D	ate: 12	2/27/2017	S	SeqNo: 1	539782	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	<b>RPDLimit</b>	Qual	
Benzene	0.93	0.025	1.000	0	93.0	77.3	128				
Toluene	0.95	0.050	1.000	0	94.9	79.2	125				
Ethylbenzene	0.94	0.050	1.000	0	94.3	80.7	127				
Xylenes, Total	2.9	0.10	3.000	0	95.9	81.6	129				
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	80	120				

#### Qualifiers:

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

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

## Sample Log-In Check List

BLAGG Work Order Number: 1712E51 RcptNo: 1 Client Name: 12/27/2017 7:30:00 AM Received By: Sophia Campuzano 12/27/2017 8:49:30 AM Sophia Campuzano Sophie Cape Completed By: 12/27/17 Reviewed By: IMO Chain of Custody Yes No 🗌 Not Present 1 Custody seals intact on sample bottles? No 🗆 Yes V Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗌 NA 🗌 Yes V 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V NA 🗌 No 🗌 Yes 🗸 6. Sample(s) in proper container(s)? 7. Sufficient sample volume for indicated test(s)? Yes V No 🗌 8. Are samples (except VOA and ONG) properly preserved? No 🗌 No V NA 🗌 9. Was preservative added to bottles? Yes No VOA Vials No 10.VOA vials have zero headspace? Yes No 🗸 Yes 11. Were any sample containers received broken? # of preserved bottles checked Yes 🗸 for pH: 12. Does paperwork match bottle labels? No 🗔 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes 🗸 13 Are matrices correctly identified on Chain of Custody? Yes V No 🗌 14. Is it clear what analyses were requested? Checked by: Yes V No  $\square$ 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA V 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: **Client Instructions:** 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date 3.3 Good Yes



