Form C-144 July 21, 2008

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Tank Construction material:

Alternative Method:

Liner type: Thickness _____

Form C-144

☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other

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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

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

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Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application					
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit					
Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method					
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, 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					
1. Operator: OGRID #:					
Address:					
Facility or well name:					
API Number: OCD Permit Number:					
U/L or Qtr/Qtr Section Township Range County:					
Center of Proposed Design: Latitude NAD: 1927 1983					
Surface Owner: Federal State Tribal Trust or Indian Allotment					
2.					
Pit: Subsection F or G of 19.15.17.11 NMAC					
Temporary: Drilling Workover					
Permanent Emergency Cavitation P&A					
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other					
String-Reinforced					
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D					
3					
Closed-loop System: Subsection H of 19.15.17.11 NMAC					
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)					
Drying Pad Above Ground Steel Tanks Haul-off Bins Other					
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other					
Liner Seams: Welded Factory Other					
4					
Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank ID:					
Volume: bbl Type of fluid:					

☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

mil HDPE PVC Other

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Oil Conservation Division

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 (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>)		
Four foot height, four strands of barbed wire evenly spaced between one and four feet		
Alternate. Please specify		
7.		
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)		
8. 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		
Administrative Approvals 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:		
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau of	office for	
consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.		
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 accept	table source	
material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate approval from the approximation appr	oriate district	
office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dryi		
above-grade tanks associated with a closed-loop system.	□ Vaa □ Na	
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No	
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).	☐ Yes ☐ No	
- 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.	☐ Yes ☐ No ☐ NA	
(Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	□ NA	
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes No	
 (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	∐ NA	
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock	☐ Yes ☐ No	
watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No	
adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality		
Within 500 feet of a wetland.	□ Vaa □ Na	
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No	
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No	
Within an unstable area.	☐ Yes ☐ No	
- 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	

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:			
Closed-loop Systems 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. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - 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:			
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)			
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 attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 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 Gil Field Waste Stream Characterization Monitoring and Inspection Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 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 Closed-loop System 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)			
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 F 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 G of 19.15.17.13 NMAC			

16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tank	s or Haul-off Bins Only: (19.15.17.13.D N	JMAC)		
Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluid facilities are required.				
· 1	acility Permit Number:			
	acility Permit Number:			
Will any of the proposed closed-loop system operations and associated activities occur on or in Yes (If yes, please provide the information below) No	areas that will not be used for future service	e and operations?		
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirement Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.1 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.	7.13 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 provided below. Requests regarding changes to certain siting criteria may require administry considered an exception which must be submitted to the Santa Fe Environmental Bureau of demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	ative approval from the appropriate district fice for consideration of approval. Justifica	t office or may be		
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained for	rom nearby wells	Yes No		
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained for	rom 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 for	rom nearby wells	☐ Yes ☐ No ☐ NA		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant wat lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ercourse or lakebed, sinkhole, or playa	Yes No		
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	e at the time of initial application.	Yes No		
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five h watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in exist. NM Office of the State Engineer - iWATERS database; Visual inspection (certification)	istence at the time of initial application.	Yes No		
Within incorporated municipal boundaries or within a defined municipal fresh water well field adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained	-	Yes No		
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection	1 (certification) of the proposed site	Yes No		
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Minera		Yes No		
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Society; Topographic map	l Resources; USGS; NM Geological	☐ Yes ☐ No		
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 F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements 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 Protocols and Procedures - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F 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 I of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC				

Operator Application Certification: I hereby certify that the information submitted with this application is true, accurately.	rate and complete to the best of my knowledge and belief.			
Name (Print):	Title:			
Signature: Date:				
e-mail address: Telephone:				
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure F				
OCD Representative Signature:	Approval Date: 12/21/19			
Title: Environmental Specalist	OCD Permit Number:			
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the complete the complete that the complete the complete that the	to implementing any closure activities and submitting the closure report. the completion of the closure activities. Please do not complete this			
Closure Method: Waste Excavation and Removal On-Site Closure Method Altern If different from approved plan, please explain.	native Closure Method Waste Removal (Closed-loop systems only)			
Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, dri two facilities were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated activities performed on o Yes (If yes, please demonstrate compliance to the items below) No Required for impacted areas which will not be used for future service and operat Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique 24. Closure Report Attachment Checklist: Instructions: Each of the following is 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) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable)	Disposal Facility Permit Number: Disposal Facility Permit Number: Disposal Facility Permit Number: r in areas that will not be used for future service and operations? tions:			
 □ Waste Material Sampling Analytical Results (required for on-site closure) □ Disposal Facility Name and Permit Number □ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique □ Site Reclamation (Photo Documentation) On-site Closure Location: Latitude Longing 	tude NAD:			
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure requires				
Name (Print):	Title:			
Signature:	Date:			
e-mail address:	Telephone:			

22.	
Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print):	Title:
Signature:	Date:
e-mail address:	Telephone:

BPX ENERGY

(formally BP America Production Company) SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Ludwick LS # 17 – Tank ID: A

API #: 3004509246

Unit Letter B, Section 29, T30N, R10W

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BPX Energy (BPX) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BPX 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. BPX 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 BPX's NMOCD approved BGT design attached to the BPX Design and Construction Plan. BPX 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 BPX's NMOCD approve BGT Design attached to the BPX Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BPX 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. BPX 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. BPX 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 documented in the attached email.

- 3. BPX 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. BPX 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. BPX Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
 - f. BPX Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
 - g. BPX Operated GCU 259 SWD, API 30-045-20006 (Liquids)
 - h. BPX Operated GCU 306 SWD, API 30-045-24286 (Liquids)
 - i. BPX Operated GCU 307 SWD, API 30-045-24248 (Liquids)
 - i. BPX Operated GCU 328 SWD, API 30-045-24735 (Liquids)
 - k. BPX Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

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

4. BPX 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. BPX 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. BPX shall test the soils beneath the BGT to determine whether a release has occurred. BPX 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
	-	(mg/Kg)	Results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	< 0.089
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.36
TPH	US EPA Method SW-846 418.1	100	<49
Chlorides	US EPA Method 300.0 or 4500B	250 or background	<60

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.

<u>Soil beneath the BGT was sampled for TPH, BTEX, and chloride. All test parameters</u> were below the stated limits. A field and laboratory reports are attached.

7. BPX 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 BPX will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.

Sampling results reveal no evidence of a release has occurred.

9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BPX 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

<u>Sampling results reveal no evidence of a release has occurred.</u> Area was backfilled with clean, earthen material and is within the active well pad.

10. BPX 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. BPX 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 BGT area has been backfilled with clean, earthen material and is within the active well pad. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

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 BGT area has been backfilled with clean, earthen material and is within the active well pad. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

12. BPX 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 BGT area has been backfilled with clean, earthen material and is within the active well pad. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

13. BPX 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 BGT area has been backfilled with clean, earthen material and is within the active well pad. Reclamation will be completed within the allowable timeframe and will meet the specified requirements of 19.15.17.13 NMAC.

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

 BPX will notify NMOCD when re-vegetation is successfully completed.
- 15. Within 60 days of closure completion, BPX 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.

<u>Closure report on C-144 form is included & contains a photo of the current reclamation</u> requirements completed.

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

Certification section of C-144 has been completed.

BP Pit Closure Notification – Ludwick LS 017

From: Patti Campbell (BPX)
To: Smith, Cory, EMNRD

Cc: Steven Moskal (BPX), Erin Dunman (BPX), Sabre Beebe (BPX), Adeloye, Abiodun (BLM), I1thomas@blm.gov (BLM), Nelson Velez,

Jefferey Blagg

Date: Monday, August 20, 2019 11:25 AM MDT

SENT VIA E-MAIL TO: CORY.SMITH@STATE.NM.US

August 20, 2019

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

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

Ludwick LS 017
API 30-045-09246
(B) Section 29 – T30N – R10W
San Juan County, New Mexico

Dear Mr. Cory Smith,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95 bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around August 23, 2019.

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

Sincerely,

Patti Campbell

Regulatory Analyst
BP America Production Company
BPX Energy Inc.
(970) 712-5997
patti.campbell@bpx.com



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bp



BP America Production Company 1199 Main Ave., Suite 101 Durango, CO 81303

August 20, 2019

Bureau of Land Management Emmanuel Abiodun Adeloye 6251 College, Suite A Farmington, NM 87402

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: LUDWICK LS 017

API# - 3004509246

Dear Mr. Adeloye,

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 August 23, 2019. Barring any unforeseen issues, the work should be completed within 10 working days.

This site has been plugged and abandoned and BP is decommissioning the well site.

If witnessing of the tank removal is required, please contact Steve Moskal on (505)-330-9179 or Erin Dunman on (281) 810-2578 for a specific time.

Sincerely,

Patti Campbell

Patti Campbell BPX – San Juan Regulatory Analyst District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party BPX Energy (formerly BP America Production Co.)			y BP America Production Co.)	OGRID	OGRID 778	
Contact Nam	Contact Name Steve Moskal		Contact	Telephone (505) 330-9179		
Contact email Steven.Moskal@bpx.com			com	Incident	Incident # (assigned by OCD)	
Contact mail	ling address	1199 Main Av	e., Suite 101, Dur	ango, CO	81301	
			Location of	Release S	Source	
atitude	36	.78786			-107.90395	
			(NAD 83 in decimal	degrees to 5 dec	cimal places)	
Site Name L	UDWIC	K LS 017		Site Type	e Natural Gas Well	
Date Release	Discovered	[API# (if ap	applicable) 30-045-09246	
Unit Letter	Section	Township	Range	Cou	untv	
B	29	30N	10W		County San Juan	
	Materia	al(s) Released (Select a	Nature and V		fic justification for the volumes provided below)	
Crude Oil		Volume Release		nations of specif	Volume Recovered (bbls)	
Produced	Water	Volume Release	ed (bbls)		Volume Recovered (bbls)	
Is the concentration of dissolved chloride produced water >10,000 mg/l?		ide in the	Yes No			
Condensate Volume Released (bbls)			Volume Recovered (bbls)			
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		ts)	Volume/Weight Recovered (provide units)			
Cause of Rel	ease TPH	, BTEX, & chl	oride all below be	low-grade	e tank (BGT) permit closure standards.	

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	sible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
Not required.		
	Initial Re	sponse
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stonned	
	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or d	kes, absorbent pads, or other containment devices.
All free liquids and re	coverable materials have been removed and	managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	rhy:
		mediation immediately after discovery of a release. If remediation fforts have been successfully completed or if the release occurred
		ease attach all information needed for closure evaluation.
regulations all operators are a public health or the environm failed to adequately investiga	required to report and/or file certain release notifient. The acceptance of a C-141 report by the Oate and remediate contamination that pose a threat	est of my knowledge and understand that pursuant to OCD rules and ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have t to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws
Printed Name: Steve	e Moskal	Title: Environmental Coordinator
Signature:		Date:
email: Steve.Moska	al@bpx.com	Telephone:(505) 330-9179
OCD Only		
Received by:		Date:

CHENTE BPX	BLAGG ENGIN	API#: 3004509246	
CLIENT: DI A	P.O. BOX 87, BLOO	TANK ID A	
	(505) 63	32-1199 	(if applicble):
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEAS	SE INVESTIGATION / OTHER:	PAGE #: of
SITE INFORMATION	: SITE NAME: LUDWICK L	S # 17	DATE STARTED: 08/23/19
QUAD/UNIT: B SEC: 29 TWP:	30N RNG: 10W PM: NN		
1/4 -1/4/FOOTAGE: 790'N / 1,65 (FEDERAL / STATE / FEE / INDIAN	ENVIRONMENTAL
LEASE #: SF078194	PROD. FORMATION: DK CONTRAC	WESTERN STATE CTOR: BPX - D. BULLER	SPECIALIST(S): NJV
REFERENCE POINT	WELL HEAD (W.H.) GPS COORI	36.78763 X 107.904	10 GL ELEV.: 6,171'
1)95 BGT (DW/DB)			//BEARING FROM W.H.: 58.5', N26.5W
2)	GPS COORD.:		//BEARING FROM W.H.:
	GPS COORD.:		/BEARING FROM W.H.:
4)	GPS COORD.:	DISTANCE	//BEARING FROM W.H.:
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB US		OVM READING
	95) SAMPLE DATE: 08/23/19		(ppm)
	SAMPLE DATE:		` /
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANALYSIS:	
	SAMPLE DATE:		
5) SAMPLE ID:	SAMPLE DATE:		
	SOIL TYPE: SAND SILTY SAND SILT / SILT	TY CLAY / CLAY / GRAVEL / OTHER	
	I	,	C / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC	I	Y (COHESIVE CLAYS & SILTS): SOFT / FIF OR DETECTED: YES NO EXPLANATION -	
MOISTURE: DRY SLIGHTLY MOIST MOIST / W		TO ENDERGO EN PROPERTO	_
SAMPLE TYPE: GRAB COMPOSITE #		EAS DISPLAYING WETNESS: YES NO EX	PLANATION -
DISCOLORATION/STAINING OBSERVED: YES	D EXPLANATION -		
	LOST INTEGRITY OF EQUIPMENT: YES NO		
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:	DIAND/OR OCCURRED : YES NO EXPLANATION:	:	
	WITNESS CONFIRMATION SAMPLING.	GAS WELL IS PLUGGED & ABANDO	NED (P&A).
		/ NA	
EXCAVATION DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: >100'	NA ft. X NA ft. X NA ft. X NEAREST WATER SOURCE: >1,000' NEAF		ESTIMATION (Cubic Yards): NA NMOCD TPH CLOSURE STD: 100 ppm
			NMOCD TPH CLOSURE STD: ppm
SITE SKETCH	BGT Located: off on site	PLOT PLAN circle: attached	OVM CALIB. READ. = NA ppm RF =1.00
	FORMER		OVM CALIB. GAS = NA ppm
	PROD. TAN UNIT	N	TIME: NA am/pm DATE: NA
	LOCATION	۱'	MISCELL. NOTES
PBGTL T.B. ~ 5'			PO #:
B.G.	FORMER		AFE #:
	STEEL CONTAINMENT		SIO #:
	RING		GL #:
FORMER	LOCATION		Permit date(s): 06/02/10
FORMER SEPARATO	R _ / ¬		OCD Appr. date(s): 04/08/16
UNIT LOCATION	- > / / 		Tank OVM = Organic Vapor Meter ppm = parts per million
LOCATION	MARKER		A BGT Sidewalls Visible: Y / N
	\oplus	X - S.P.D.	BGT Sidewalls Visible: Y / N
	IN DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H.	= TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD;	BGT Sidewalls Visible: Y / N
	OW-GRADE TANK LOCATION;		Magnetic declination: 10° E
NOTES: GOOGLE EARTH IMAG		ONSITE: 08/23/19	

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

Analytical Report

Lab Order 1908E46

Date Reported: 8/28/2019

Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 LUDWICK LS 17
 Collection Date: 8/23/2019 12:26:00 PM

 Lab ID:
 1908E46-001
 Matrix: SOIL
 Received Date: 8/24/2019 10:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	8/26/2019 9:58:04 AM	47041
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/26/2019 9:25:08 AM	47037
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/26/2019 9:25:08 AM	47037
Surr: DNOP	101	70-130	%Rec	1	8/26/2019 9:25:08 AM	47037
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	18	mg/Kg	5	8/26/2019 9:36:29 AM	A62419
Surr: BFB	92.6	77.4-118	%Rec	5	8/26/2019 9:36:29 AM	A62419
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.089	mg/Kg	5	8/26/2019 9:36:29 AM	C62419
Toluene	ND	0.18	mg/Kg	5	8/26/2019 9:36:29 AM	C62419
Ethylbenzene	ND	0.18	mg/Kg	5	8/26/2019 9:36:29 AM	C62419
Xylenes, Total	ND	0.36	mg/Kg	5	8/26/2019 9:36:29 AM	C62419
Surr: 4-Bromofluorobenzene	92.7	80-120	%Rec	5	8/26/2019 9:36:29 AM	C62419

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

- 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 Limit

Chain-of-Custody Record			Turn-Around Time:			HALL ENVIRONMENTAL																
Client: BLAGG ENGR. / BPX ENERGY			☐ Standard	Q Rush _	DAY) -												NT ATC				
					Project Name			│ 												. .	/K)	ľ
Mailing Address: P.O. BOX 87				LUDWICK LS # 17				www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109														
		BLOOM	FIELD, NM 87	413	Project #:															,		
Phone #:		(505) 63	32-1199		1				Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
email or F	ax#:				Project Manag	ger:	··															
QA/QC Package: ☑ Standard ☐ Level 4 (Full Validation)			SABRE BEEBE				+ TPH (Gas only)	/ MRO)			<u></u>		04,504)	PCB's			r - 300.1)					
Accreditat	Accreditation:			· · · · · · · · · · · · · · · · · · ·	Sampler:	NELSON VI	ELEZ	#B+ (8021B)	Gas	DRO /			ĬŠ.		J ₂ ,P	8082			water		nple	-
□ NELAF		□ Other			On Ice; Ma Yes □ No ?? V				PH (70	418.1)	9.	270		N,E	/		-			san	Î
	Гуре)				Sample Temp	erature: (L/W	narly			88	pd 4	od 5	or 8	tals	Σ,	ides	2	9	- 30		e Site	j S
Date	Time	Matrix	Sample R	Request ID	Container Type and #	Preservative Type	HEAL NO. 1988E46	BTEX + PATE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0		Grab sample 5 pt. composite sample	Air Bubbles (Y or N)
8/23/19	12.26	SOIL	5PC - TB @	5 (95)	4 oz 1	Cool	-00	V		7	·	_				~	~	~	<u>v</u>	1	<u> </u>	+
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Data	Time	Balinaviah	ad bass		D																	
Date: Time: Relinquished by:			Received by: Date Time				emarks: BILL DIRECTLY TO BPX USING THE CONTACT(S) BEI						104	LOW. PO DELIVERED D. SCF= 4 CC								
Date:					Received by: Date Time			CONTACT: SABRE BEEBE / ERIN DUNMAN 2.46-10.5						0.50	== 2	qı						
8/33)1A	1740		HWas	0	1 CL	2 08/2	4/19 1746	of this possibility. Any sub-contracted data will be clearly notated on the				3.1 2.	t0.5° D.5	F= 1. CF= [.0c). <u>8</u> c							

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908E46**

28-Aug-19

Client: Blagg Engineering
Project: LUDWICK LS 17

Sample ID: MB-47041 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 47041 RunNo: 62418

Prep Date: 8/26/2019 Analysis Date: 8/26/2019 SeqNo: 2122906 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-47041 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 47041 RunNo: 62418

Prep Date: 8/26/2019 Analysis Date: 8/26/2019 SeqNo: 2122907 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.8 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 Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908E46**

28-Aug-19

Client: Blagg Engineering
Project: LUDWICK LS 17

Sample ID: MB-47037 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **47037** RunNo: **62408**

Prep Date: 8/26/2019 Analysis Date: 8/26/2019 SeqNo: 2121649 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.4 10.00 94.1 70 130

Sample ID: LCS-47037 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 47037 RunNo: 62408

Prep Date: 8/26/2019 Analysis Date: 8/26/2019 SeqNo: 2121650 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD Analyte PQL LowLimit HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) 45 10 50.00 90.2 63.9 124

Diesel Range Organics (DRO) 45 10 50.00 0 90.2 63.9 124
Surr: DNOP 4.2 5.000 83.2 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 Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908E46**

28-Aug-19

Client: Blagg Engineering
Project: LUDWICK LS 17

Sample ID: RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: A62419 RunNo: 62419

Prep Date: Analysis Date: 8/26/2019 SeqNo: 2122213 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 101 77.4 118

Sample ID: 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: A62419 RunNo: 62419

Prep Date: Analysis Date: 8/26/2019 SeqNo: 2122214 Units: mg/Kg

LowLimit Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 89.4 80 120 Surr: BFB 1100 1000 109 77.4 118

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

Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908E46**

28-Aug-19

Client: Blagg Engineering
Project: LUDWICK LS 17

Sample ID: RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: C62419 RunNo: 62419

Prep Date: Analysis Date: 8/26/2019 SeqNo: 2122257 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 1.0 1.000 101 80 120

Sample ID: 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: C62419 RunNo: 62419

Prep Date:	Analysis Date: 8/26/2019			S	122258	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.97	0.025	1.000	0	97.2	80	120				
Toluene	1.0	0.050	1.000	0	99.8	80	120				
Ethylbenzene	1.0	0.050	1.000	0	99.9	80	120				
Xylenes, Total	3.0	0.10	3.000	0	101	80	120				
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	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

Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

Sample Log-In Check List

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

Cli	ient Name:	BLAGG		Work	Order Nur	mber: 190	8E46			RcptNo	: 1
Po	onived By:	Anna Tha			MO 40.00.	00.484		1	N		
	ceived By:	Anne Tho			10:00:0			Um	Sh. Sh.		
	mpleted By:	Anne Tho		8/24/20	119 11:00:	34 A M		am	, Sh.		
Re	viewed By:	16 81.	24/19								
Chi	ain of Cus	todv									
	ls Chain of Cu		lete?			Yes	V	No		Not Present	
	How was the									,,,,,,,,,,,,,,,	
	o g In Nas an attem	nt made to	rool the comm	Jon?		Yes		No		NA 🗆	
O. ,	rvas ali attelli	primade to	coor the samp	nes :		Tes	•	NO		NA 🗆	
4. v	Vere all samp	les received	l at a tempera	ature of >0° C	to 6 .0°C	Yes	✓	No		NA 🗌	
5 6	?!-/-\ i		:(-)0								
J. 3	Sample(s) in p	proper conta	iner(s)?			Yes	V	No			
6. s	Sufficient sam	ple volume t	or indicated to	est(s)?		Yes	✓	No			
7. A	re samples (e	except VOA	and ONG) pro	operly preserve	∍d?	Yes	~	No			
8. v	Vas preservat	ive added to	bottles?			Yes		No	~	NA \square	
9. v	OA vials have	e zero head:	space?			Yes		No		No VOA Viais ✓	•
10. V	Vere any sam	ple containe	ers received b	oroken?		Yes		No	V		
	-									# of preserved bottles checked	
	oes paperwo					Yes	✓	No		for pH:	
	Note discrepa		•	•					$_{\Box}$	(<2 or Adjusted?	>12 unless noted)
				n of Custody?			✓	No		Adjusted	
	s it clear what Vere all holdin			•			✓	No No		Checked by:	At 08/24/19
	f no, notify cu	_				Yes	•	NO		Thousand by:	100129111
Spec	cial Handli	ng (if app	plicable)								
				with this order?	,	Yes		No		NA 🗹	
	Person I	Notified:			Date	e [***************************************				
	By Who	m:			Via:	·	ail 🔲	Phone [Fax	☐ In Person	
	Regardir	ıg:							harran and a second		
ĺ	Client In:	structions:								NO. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	
16.	Additional ren	narks:									
17. (Cooler Inforn	nation									
-	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ate	Signed E	3у		
	1	4.6	Good	Yes							
	2 3	2. 4 1.0	Good	Yes	141.14	1					
	4	0.8	Good Good	Yes Yes		<u> </u>					

LUDWICK LS 017



