District I 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 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

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.

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.						
Operator: BP AMERICA PRODUCTION COMPANY OGRID #: 778						
Address: 200 Energy Court, Farmington, NM 87401						
Facility or well name: HEATH GAS COM G 001E						
API Number: 3004524377 OCD Permit Number:						
U/L or Qtr/Qtr I Section 8.0 Township 29.0N Range 09W County: San Juan County						
Center of Proposed Design: Latitude 36.73783 Longitude -107.79590 NAD: □1927 🗷 1983						
Surface Owner: ▼ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment						
2.						
Pit: Subsection F or G of 19.15.17.11 NMAC						
☐ Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: ☐ Drilling ☐ Workover						
Temporary: Drilling Workover Permanent Emergency Cavitation P&A NOV 2 7 2018						
Temporary: Drilling Workover						
Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced						
Temporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced						
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.						
Temporary: Drilling Workover Permanent Emergency Cavitation P&A NOV 2 7 2018 Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced DISTRICT III 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						
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.						
Temporary: Drilling Workover Permanent Emergency Cavitation P&A NOV 2 7 2018 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 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						
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: Thickness mil LLDPE HDPE PVC Other						
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: Thickness mil LLDPE HDPE PVC Other						
Temporary: Drilling Workover Permanent Emergency Cavitation P&A NOV 2 7 2018 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 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						
Temporary: Drilling Workover Permanent Emergency Cavitation P&A NOV 27 2018 Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other						
Temporary: Drilling Workover Permanent Emergency Cavitation P&A NOV 2 7 2018 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						

Alternative Method:

Liner type: Thickness

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

☐ 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 WALLED DOUBLE BOTTOMED

mil HDPE PVC Other

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, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	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	
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 consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
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 acceptant material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district pproval.
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). - 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. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock 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	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 500 feet of a wetland. 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. 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 FEMA map	☐ Yes ☐ No

Page 2 of 5

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:
Treviously Approved Design (attach copy of design) AFT Number of Fernit 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 Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
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 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

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cutting facilities are required.						
Disposal Facility Name: Disposal Facility Permit Num	nber:					
Disposal Facility Name: Disposal Facility Permit Number:						
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please provide the information below) No						
Required for impacted areas which will not be used for future service and operations: 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 I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G 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. Recommendati provided below. Requests regarding changes to certain siting criteria may require administrative approval from considered an exception which must be submitted to the Santa Fe Environmental Bureau office for considerate demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	m the appropriate district off	fice 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 from nearby wells		Yes □ No NA				
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 from nearby wells		Yes □ No NA				
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells		Yes ☐ No NA				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebe lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ed, sinkhole, or playa	Yes No				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of init Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	tial application.	Yes No				
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database; Visual inspection (certification) of the proposed of the state Engineer - iWATERS database in the state - iWAT	of initial application.	Yes No				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a madopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipal		Yes No				
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of		Yes No				
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division		Yes No				
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS Society; Topographic map 	S; 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 attable 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 NMA 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. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate 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 or in case on-site 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 G of 19.15.17.13 NMAC	AC NMAC 15.17.11 NMAC ate requirements of 19.15.17.1 19.15.17.13 NMAC NMAC	II NMAC				

19. 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 belief.				
Name (Print): Title:				
Signature: Date:				
e-mail address: Telephone:				
20. OCD Approval: Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment)				
OCD Representative Signature: Approval Date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
Title: Contravolat Specialist OCD Permit Number:				
Closure Report (required within 60 days of closure completion): Subsection K of 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. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.				
✓ Closure Completion Date: 11\26\2018				
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.				
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:				
Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.				
Disposal Facility Name: Disposal Facility Permit Number:				
Disposal Facility Name: Disposal Facility Permit Number:				
Were the closed-loop system operations and associated activities performed on or in areas that <i>will not</i> be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) \(\subseteq \text{No} \)				
Required for impacted areas which will not be used for future service and operations: 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 items must be attached to the closure report. Please indicate, by a check				
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) □ 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 36.73783 Longitude -107.79590 NAD: □1927 ■ 1983				
Operator Closure Certification:				
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.				
Name (Print): Steve Moskal Title: Field Environmental Coordinator				
Signature:				
e-mail address: steven.moskal@bpx.com Telephone: 505-330-9179				

Operator Closure Certification:					
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.					
Name (Print):	Title:				
Signature:	Date:				
e-mail address:	Telephone:				

Page 6 of 6

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

			Resp	onsible Party	y		
Responsible	Party BP A	America Produ	ction Compan	y OGRID 7	78		
Contact Name Steve Moskal				Contact Te	ontact Telephone (505) 330-9179		
Contact email Steven.Moskal@bpx.com			com	Incident #	(assigned by OCD)		
Contact mail	ing address	380 North Air	port Road, Du	rango, CO 813	303		
			Location	of Release So	ource		
Latitude	36.	73783	(NAD 83 in deci	Longitude _ imal degrees to 5 decin			
Site Name HEATH GAS COM G 001E Site Type			Site Type	Natural Gas Well			
Date Release Discovered				API# (if app	olicable) 30-045-24377		
Unit Letter	Section	Township	Danga	Cour	atr.		
I I	8	Township 29N	Range 09W	San J			
Surface Owner	r: State	⊠ Federal ∐ Tr	ibal Private (N Nature and	Volume of l	Release		
Crude Oil				calculations or specific	justification for the volumes provided below)		
		Volume Release			Volume Recovered (bbls)		
Produced	water	Volume Release			Volume Recovered (bbls)		
Is the concentration of dissolved chloride produced water >10,000 mg/l?		nloride in the	Yes No				
Condensa	ite	Volume Release			Volume Recovered (bbls)		
Natural G	ias	Volume Release	d (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units		units)	Volume/Weight Recovered (provide units)				
Cause of Rele	ease TPH,	BTEX, & chlo	oride all below	below-grade t	ank (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						
ICVEC	di di agpa p					
If YES, was immediate no	otice given to the OCD? By whom? To who	om? When and by what means (phone, email, etc)?				
Not required.						
	Initial Response					
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	ase has been stopped.					
☐ The impacted area has	s been secured to protect human health and t	the environment.				
Released materials ha	ve been contained via the use of berms or di	kes, absorbent pads, or other containment devices.				
All free liquids and re	ecoverable materials have been removed and	managed appropriately.				
If all the actions described	l above have <u>not</u> been undertaken, explain w	/hy:				
has begun, please attach a	a narrative of actions to date. If remedial e	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 republic health or the environmental failed to adequately investigations.	required to report and/or file certain release notifient. The acceptance of a C-141 report by the Otate and remediate contamination that pose a threa	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 it to groundwater, surface water, human health or the environment. In esponsibility for compliance with any other federal, state, or local laws				
Printed Name: Steve	Moskal	Title: Environmental Coordinator				
Signature:	Mu	Date:				
email: Steven.Mosl	kal@bpx.com	Telephone:(505) 330-9179				
OCD Only						
Received by:		Date:				

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Heath Gas Com G # 1E - Tank ID: A

API #: 3004523477

Unit Letter I, Section 8, T29N, R09W

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

- 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 documented in the attached email.

- 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/or sludge within 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
		(mg/Kg)	Results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	< 0.016
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.064
TPH	US EPA Method SW-846 418.1	100	<49
Chlorides	US EPA Method 300.0 or 4500B	250 or background	< 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 beneath the BGT was sampled for TPH, BTEX, and chloride. All test parameters were below the stated limits. A field 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 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 BP shall backfill the excavation, with compacted, nonwaste 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 reveal no evidence of a release has occurred. Area was backfilled with clean, earthen material and is within the active well pad.

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 BGT area has been backfilled and will be reclaimed once the well has been plugged & 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 BGT area has been backfilled and will be reclaimed once the well has been plugged & 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 BGT area has been backfilled and will be reclaimed once the well has been plugged & 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 BGT area has been backfilled and will be reclaimed once the well has been plugged & 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 re-vegetation.

BP will notify NMOCD when re-vegetation is successfully completed.

- 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 & contains a photo of the reclamation completion.

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

Certification section of C-144 has been completed.

BP Pit Close Notification - HEATH GC G 001E

Farrah Buckley <Farrah.Buckley@bpx.com>
 To:Smith, Cory, EMNRD,Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)
 Cc:jeffcblagg@aol.com,blagg_njv@yahoo.com,Erin Dunman

Sep 19 at 3:45 PM

BP America Production Company 380 Airport Rd Durango, CO 81303 Phone: (970) 247 6800

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

September 19, 2018

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

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

HEATH GC G 001E API 30-045-24377 Section 8 – T29N – R09W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around September 24, 2018.

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

Sincerely,

Erin Dunman

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.





BP America Production Company San Juan North Operations Center

380 Airport Road Durango, CO 81303 Phone: (970) 247-6800

September 19, 2018

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: HEATH GAS COM G 001E

API# - 3004524377

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 September 24, 2018. If there aren't any unforeseen problems, the work should be completed within 10 working days.

As a point of clarification, BP will be closing the below grade tank and either operating without one or replacing it with an above ground tank, the well site will continue to operate. If witnessing of the tank removal is required please contact me for a specific time (832)-609-7048.

Sincerely,

Erin Dunman BP America Production Company

CLIENT: BP	BLAGG ENGIN P.O. BOX 87, BLOO (505) 63	MFIELD, NM 87413	API #: 3004524377 TANK ID (if applicble): A	
			(II applicble).	
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEAS	SE INVESTIGATION / OTHER:	PAGE #:1_ of1_	
SITE INFORMATION	: SITE NAME: HEATH GC	G #1E	DATE STARTED: 09/24/18	
QUAD/UNIT: SEC: 8 TWP:	29N RNG: 9W PM: NN	CNTY: SJ ST: NN	DATE FINISHED:	
1/4-1/4/FOOTAGE: 1,820'S / 800	D'E NE/SE LEASE TYPE:	FEDERAL STATE / FEE / INDIAN	ENVIRONMENTAL	
LEASE #: SF076337	PROD. FORMATION: MV/DK CONTRAC	STRIKE CTOR: BP - J. GONZALES	SPECIALIST(S): NJV	
REFERENCE POINT			78 GLELEV: 5,692'	
1) 95 BGT (SW/DB)			E/BEARING FROM W.H.: 148', N6E	
2)	GPS COORD.:			
3)	GPS COORD.:	DISTANC	E/BEARING FROM W.H.:	
4)	GPS COORD.:	DISTANC	E/BEARING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB US	SED: HALL	OVM READING (ppm)	
1) SAMPLE ID: 5PC - TB @ 5'	(95) SAMPLE DATE: 09/24/18	SAMPLE TIME: 1312 LAB ANALYSIS:		
	SAMPLE DATE:S			-
F-1-1 SANGE VINCENSE WITHOUT SECTION AND ADDRESS OF THE PARTY OF THE P	SAMPLE DATE:			
	SAMPLE DATE:S			
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND SILT / SILT	Y CLAY / CLAY / GRAVEL OTHER		
SOIL COLOR: DARK YEL COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY / SLIGHTLY MOIST MOIST W SAMPLE TYPE: GRAB / COMPOSITE + DISCOLORATION/STAINING OBSERVED: YES M	COHESIVE COHESIVE / HIGHLY COHESIVE DENSIT DOSE FIRM DENSE / VERY DENSE HC ODO: ET / SATURATED / SUPER SATURATED SUPER SATURATED ANY ARE	Y (COHESIVE CLAYS & SILTS): SOFT / FI R DETECTED: YES NO EXPLANATION -	IC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC RM / STIFF / VERY STIFF / HARD (PLANATION -	_
	S: LOST INTEGRITY OF EQUIPMENT: YES NO	EXPLANATION -		
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:	DAND/OR OCCURRED: YES NO EXPLANATION: YES NO EXPLANATION - 105 BBL SHALL RESENT TO WITNESS CONFIRMATION SA	OW LOW PROFILE ABOVE-GRADI	E TANK TO BE SET ATOP BGT LOCATIO)N.
EXCAVATION DIMENSION ESTIMATION	NA ft. X NA ft. X	NA ft. EXCAVATION	ESTIMATION (Cubic Yards) : NA	_
DEPTH TO GROUNDWATER: <u>50'< x <100'</u>	NEAREST WATER SOURCE: >1,000' NEAR	EST SURFACE WATER: 300'< x < 1,00	0' NMOCD TPH CLOSURE STD: 2,500 pp	m
SITE SKETCH	BGT Located: off on site	PLOT PLAN circle: attached	OVM CALIB. READ. = NA ppm RF = 1.0	00
	COLIND	^	OVM CALIB. GAS = NA ppm	_
	SOUNDWALLS	N	TIME: NA am/pm DATE: NA	_
		COMPRESSOR	MISCELL. NOTES	
			WO:	
FENCE	$(x \overset{\circ}{x} \overset{\circ}{x})$	SEPARATOR	REF #: P-1014	
PROD.			VID: VHIXONEV11	
TANK	PBGTL T.B. ~5'		PJ#:	
BERM ⁻	B.G.		Permit date(s): 06/14/10	
DEVIA			OCD Appr. date(s): 03/01/18 Tank OVM = Organic Vapor Meter	-
	то		D ppm = parts per million A BGT Sidewalls Visible:(Y) N	_
	√ W.H.	X - S.P.D.	BGT Sidewalls Visible: Y / N	_
NOTES: BGT = BELOW-GRADE TANK: E.D. = EXCAVATION	ON DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H.		BGT Sidewalls Visible: Y / N	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL		GNATION; R.W. = RETAINING WALL; NA - NOT	Magnetic declination: 10° E	
NOTES: GOOGLE EARTH IMAG	FRY DATE: 10/5/2016	ONSITE: 09/24/18		

Analytical Report

Lab Order 1809E43

Date Reported: 9/26/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

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

Collection Date: 9/24/2018 1:12:00 PM

Lab ID:

Project: HEATH GC G 1E 1809E43-001

Matrix: SOIL

Received Date: 9/25/2018 10:38:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SRM
Chloride	ND	30	mg/Kg	20	9/25/2018 1:17:51 PM	40573
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	AG
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	9/25/2018 12:10:08 PM	40548
Surr: BFB	98.0	70-130	%Rec	1	9/25/2018 12:10:08 PM	40548
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	Irm
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/25/2018 12:23:46 PM	40571
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/25/2018 12:23:46 PM	40571
Surr: DNOP	116	50.6-138	%Rec	1	9/25/2018 12:23:46 PM	40571
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	AG
Benzene	ND	0.016	mg/Kg	1	9/25/2018 12:10:08 PM	40548
Toluene	ND	0.032	mg/Kg	1	9/25/2018 12:10:08 PM	40548
Ethylbenzene	ND	0.032	mg/Kg	1	9/25/2018 12:10:08 PM	40548
Xylenes, Total	ND	0.064	mg/Kg	1	9/25/2018 12:10:08 PM	40548
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	9/25/2018 12:10:08 PM	40548
Surr: Toluene-d8	91.9	70-130	%Rec	1	9/25/2018 12:10:08 PM	40548

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

Qualifiers:

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

Chain-of-Custody Record				Turn-Around	ime;	SAME	HALL ENVIRONMENTAL													
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	☑ Rush _	DAY	ANALYSIS LABORATORY													
				Project Name	THE RESERVE AND PARTY OF THE PA		-	Marie S		,										PCT
Mailing A	ddress:	P.O. BO	X 87	н	EATH GC G	# 1F	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109													
			FIELD, NM 87413	Project #:	LATIT GC G	771								,						
D1 11								1 (21.5	05-3	45-3	niger etal et	W 10 10 10 10 10 10 10 10 10 10 10 10 10	NAME OF TAXABLE PARTY.	505 Red	2001000000000	SECULIAR DE)7		
Phone #: (505) 632-1199 email or Fax#:			Project Manag	ier.							1	MAI	ysis	Red	Inter		diam'r.			
				Troject Wallay					=					04	-s			300.1)		
QA/QC Package: Standard Level 4 (Full Validation)			STEVE MOS	SKAL	218	only	MRO)			S		04,5	PCB's							
Accreditat				Sampler:	NELSON VE	ELEZ	FMB's (8021B)	Gas	101	-	-	8270SIMS)		O2,P	8082			water		sample
O NELAF	,	Other		On Ice: Yes I No 97V				PH	/ DRO	18		270		N.S.	8/8		A)	0.0 /		
□ EDD (1	ype)			Sample Temperature: 2.8] [E - T	GRO	p po	od 5	0	tals	N.	cide	A.	0/-	1 - 30	0	osite	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +WTB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504	PAH (8310	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 330.	olomes desp	pt. composite
		-		Meith		1809E43		BT	-	F	H	PA	8	An	80	82	82	-	į.	-
7/24/18	1312	SOIL	5PC - TB @ 5 (95)	4 02 1	Cool	701	٧		٧	_								٧		٧
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																				TT
								1												+++
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Date: 9/24/18	Time:	Relinquishe	Mer of	Received by	Wast	Date Time 9/24/18 1729		narks		& RE	FEREN	VCE #	WHE	N APP	THE PLICAL ICE H	BLE;		VITH CC	RRESP	ONDING V
Date:	Time: 1824	Relinquishe	ote Walls	Received by:	2	Date Time 09/25/18			VID:	VHI	XON									

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809E43

26-Sep-18

Client: Project: Blagg Engineering HEATH GC G 1E

Sample ID MB-40573

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 40573

RunNo: 54419

9/25/2018

Analysis Date: 9/25/2018

SeqNo: 1803033

Units: mg/Kg

RPDLimit

Qual

Analyte Chloride

PQL Result ND

1.5

SPK value SPK Ref Val %REC LowLimit

0

HighLimit

%RPD

Sample ID LCS-40573

9/25/2018

Batch ID: 40573

Analysis Date: 9/25/2018

TestCode: EPA Method 300.0: Anions

Client ID:

Prep Date:

Prep Date:

LCSS

SampType: LCS

RunNo: 54419 SeqNo: 1803034

Units: mg/Kg

Analyte Chloride

Result

14

PQL 1.5

15.00

SPK value SPK Ref Val

%REC 96.2

LowLimit 90

110

HighLimit %RPD **RPDLimit** Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

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.

WO#:

1809E43

26-Sep-18

Client:

Blagg Engineering

Project:

HEATH GC G 1E

Sample ID MB-40571	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	ID: 40	571	R	RunNo: 54	4386					
Prep Date: 9/25/2018	Analysis D	ate: 9/	25/2018	S	SeqNo: 18	801284	Units: mg/K	(g			
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	11		10.00		109	50.6	138				

Sample ID LCS-40571	SampT	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	ID: 40	571	R	RunNo: 5	4386				
Prep Date: 9/25/2018	Analysis Da	ate: 9/	25/2018	S	SeqNo: 1	801285	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	70	130			
Surr: DNOP	5.2		5.000		104	50.6	138			

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 3 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809E43

26-Sep-18

Client: Project:

Blagg Engineering HEATH GC G 1E

Sample ID Ics-40548	SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List									
Client ID: BatchQC	Batch ID: 40548 RunNo: 54391									
Prep Date: 9/24/2018	Analysis D	Date: 9/	25/2018	S	SeqNo: 1	802447	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.7	80	120			
Toluene	1.0	0.050	1.000	0	99.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.47		0.5000		93.2	70	130			
Sample ID mb-40548	SampT	уре: МЕ	BLK	Test	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: PBS	Batch	h ID: 40	548	R	RunNo: 54	4391				

Sample ID mb-40548	Sampi	Samprype: MBLK TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch	ID: 40	548	F	RunNo: 5	4391				
Prep Date: 9/24/2018	Analysis D	ate: 9/	25/2018	8	SeqNo: 1	802448	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	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.47		0.5000		94.8	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

Page 4 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1809E43

26-Sep-18

Client: Project:

Blagg Engineering HEATH GC G 1E

Sample ID Ics-40548

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID:

LCSS

Batch ID: 40548

RunNo: 54391

Prep Date: 9/24/2018

Analysis Date: 9/25/2018

PQL

5.0

SeqNo: 1802097

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result 24 470 SPK value SPK Ref Val 25.00 500.0

500.0

SPK value SPK Ref Val

%REC LowLimit 96.6

130

130

HighLimit

RPDLimit Qual

Surr: BFB

Sample ID mb-40548

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: Prep Date:

Surr: BFB

PBS

9/24/2018

Batch ID: 40548 Analysis Date: 9/25/2018 RunNo: 54391

SeqNo: 1802098

93.6

HighLimit

Units: mg/Kg %RPD

%RPD

Qual

RPDLimit

Analyte Gasoline Range Organics (GRO) Result PQL ND 490

5.0

97.0

%REC

70

LowLimit

70

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

Practical Quanitative Limit **PQL**

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

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 5 of 5



Hall Environmental Analysis Laboratory 1901 Hawkins NF Alhuquerque, NM 87109 TEL 505-345-3975 FAX: 508-345-4102

Website www.hallenvironmental.com

Sample Log-In Check List

Client Name:	BLAGG	Work Order Numb	per: 180	9E43			Rcp	tNo: 1
Received By:	Anne Thome	9/25/2018 10:38:00	AM			A		
Completed By	Anne Thome	9/25/2018 10:43:56	AM		Den.	A.		
Reviewed By:	ENM	9/25/18			CAPPLE	All		
	by: AT 09/2							
Chain of Cus	stody							
1. Is Chain of C	Custody complete?		Yes	V	No		Not Present	
2. How was the	sample delivered?		Cou	rier				
Log In								
	npt made to cool the samp	eles?	Yes	Y	No		NA	
4. Were all sam	ples received at a tempera	ture of >0° C to 6 0°C	Yes	Y	No		NA T	
5 Sample(s) in	proper container(s)?		Yes	v	No			
6 Sufficient san	nple volume for indicated to	est(s)?	Yes	~	No			
7 Are samples ((except VOA and ONG) pro	operly preserved?	Yes	V	No			
8. Was preserva	ative added to bottles?		Yes		No	V	NA .	
9. VOA vials hav	ve zero headspace?		Yes		No		No VOA Vials	1
10. Were any sar	mple containers received b	roken?	Yes		No	~	4 - 1	
				p-vveq			# of preserved bottles checked	
	ork match bottle labels?		Yes	~	No		for pH:	2 or >12 unless noted)
	ancies on chain of custody		Yes		No		Adjusted?	2 of > 12 diffess noted)
	correctly identified on Chai it analyses were requested		Yes		No			
	ing times able to be met?		Yes		No		Checked by	
	ustomer for authorization.)		1 613	_	140			
Special Handl	ling (if applicable)							
15. Was client no	otified of all discrepancies of	with this order?	Yes		No		NA N	/
Person	Notified:	Date		er sage the Heads Telephone	ente Mijor juli de vestilantes pela Plica Apada Sel gersaal	moduminates at		
By Who	om:	Via	eMa	ail	Phone	Fax	In Person	
Regard	ing.					The state of the s		
Client in	nstructions:	Harris Anthering at the extent from the tree was terminal and down to the forest of a consideration of a consideration and a c		KING KARNING GASINING				
16. Additional rei	marks:							
17 Cooler Infor	1	Seal Intard Seal No	Seal D	ntio I	Signed I	2		
SUCEI IVO	23 Cond	mear mera agained	CHEST LE	9(6)	oigned t	, y		



