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-144 Revised June 6, 2013

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

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

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method
☐ Closure of a pit, below-grade tank, or proposed alternative method ☐ Modification to an existing permit/or registration MAY 0 3 2016
Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank,
or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
I.
Operator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: Gallegos Canyon Unit 194E
API Number: 3004526363 OCD Permit Number:
U/L or Qtr/Qtr L Section 5 Township 27N Range 12W County: San Juan
Center of Proposed Design: Latitude 36.60182 Longitude -108.14122 NAD: □1927 ⋈ 1983
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment
2.
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management ☐ Low Chloride Drilling Fluid ☐ yes ☐ no
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3.
Below-grade tank: Subsection I of 19.15.17.11 NMAC TANK A
Volume: 95 bbl Type of fluid: Produced water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other ☐ Double walled/double bottom; no visible sidewalls
Liner type: Thicknessmil
4.
☐ Alternative Method:

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

d be	
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)	hospital,
Four foot height, four strands of barbed wire evenly spaced between one and four feet	
Alternate. Please specify	
6.	
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)	
7.	
Signs: Subsection C of 19.15.17.11 NMAC	
☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	
☐ Signed in compliance with 19.15.16.8 NMAC	
8. Variance de la Francia	
<u>Variances and Exceptions</u> : Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.	
Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.	
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
material are provided below. Sitting criteria does not apply to drying pads of above-grade tanks.	
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	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. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. (Does not apply to below grade tanks) - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes No
application.	
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole,	
or playa lake (measured from the ordinary high-water mark). Topographic many Visual increasing (cartification) of the proposed site.	
 Topographic map; Visual inspection (certification) of the proposed site 	Yes No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock	
 watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa	
lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of	
initial application NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc 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 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	NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC	15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc	cuments are
attached. ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. 	15 17 9 NMAC
and 19.15.17.13 NMAC	and the state of t
Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	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 □ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC 	
Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	
 Nuisance or Hazardous Odors, including H₂S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization 	
 ☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC 	
13. Proposed Closure: 19.15.17.13 NMAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative	luid Management Pit
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems)	
In-place Burial On-site Trench Burial Alternative Closure Method	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
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
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopte					
	d pursuant to NMSA 1978, Section 3-27-3, Written confirmation or verification from	as amended. the municipality; Written approv	al obtained from the municipalit	у	Yes No
Within	the area overlying a subsurface mine. Written confirmation or verification or ma	p from the NM EMNRD-Mining	and Mineral Division	1	☐ Yes ☐ No
Within	an unstable area. Engineering measures incorporated into th Society; Topographic map	e design; NM Bureau of Geolog	y & Mineral Resources; USGS;		☐ Yes ☐ No
Within	a 100-year floodplain. FEMA map				Yes No
by a ch	e Closure Plan Checklist: (19.15.17.13 N leck mark in the box, that the documents at Siting Criteria Compliance Demonstrations Proof of Surface Owner Notice - based upor Construction/Design Plan of Burial Trench Construction/Design Plan of Temporary Pit Protocols and Procedures - based upon the a Confirmation Sampling Plan (if applicable) Waste Material Sampling Plan - based upon Disposal Facility Name and Permit Number Soil Cover Design - based upon the approprice Re-vegetation Plan - based upon the approprice Reclamation Plan - based upon the approprication	re attached. - based upon the appropriate requirements of (if applicable) based upon the appropriate requirements of (for in-place burial of a drying pappropriate requirements of 19.15 - based upon the appropriate requirements of (for liquids, drilling fluids and diate requirements of Subsection)	uirements of 19.15.17.10 NMAC Subsection E of 19.15.17.13 NM opropriate requirements of Subsead) - based upon the appropriate 5.17.13 NMAC uirements of 19.15.17.13 NMAC 19.15.17.13 NMAC will cuttings or in case on-site clo	MAC ection K of 19.15.17.11 requirements of 19.15	NMAC 5.17.11 NMAC
	tor Application Certification: by certify that the information submitted wit	h this application is true, accurat	e and complete to the best of my	knowledge and belief	:
Name	Print);		Title:		
Signati	ire:		Date:		
			2 4101		
e-mail					
OCD I	Approval: Permit Application (including Representative Signature:	ng closuce plan) M Closure Plan	Telephone:		
OCD I Title: 19. Closur Instruc	Approval: Permit Application (including Representative Signature:	ure completion): 19.15.17.13 No approved closure plan prior to the division within 60 days of the	Telephone: Conly OCD Conditions Appro OCD Permit Number: IMAC implementing any closure active e completion of the closure active	(see attachment) val Date: 550 ities and submitting the orities. Please do not constitute the second constitution of the second	the closure report.
OCD I Title: 19. Closur Instruc	Representative Signature: Report (required within 60 days of close citions: Operators are required to obtain an osure report is required to be submitted to the	ure completion): 19.15.17.13 No approved closure plan prior to the division within 60 days of the	Telephone: Conly OCD Conditions Appro OCD Permit Number: IMAC implementing any closure active e completion of the closure active	(see attachment) val Date: 05000 ities and submitting the orities. Please do not conted.	the closure report.
18. OCD A OCD I Title: 19. Closur Instruct The closection 20. Closur Wa	Representative Signature: Report (required within 60 days of close tions: Operators are required to obtain an obsure report is required to be submitted to to of the form until an approved closure planted to the form until an approved closure planted t	ure completion): 19.15.17.13 No approved closure plan prior to the division within 60 days of the has been obtained and the closure Method.	Telephone: OCD Conditions	(see attachment) val Date: DE O ities and submitting the object. 2/29/2016	the closure report.

Operator Closure Certification:	
	abmitted with this closure report is true, accurate and complete to the best of my knowledge and applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Steve Moskal	Title: Field Environmental Coordinator
Signature: Hersmin	Date: <u>April 29, 2016</u>
e-mail address: steven.moskal@bp.com	Telephone:(505) 326-9497

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Gallegos Canyon Unit #194E
API No. 3004526363
Unit Letter L, Section 5, T27N, R12W

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

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

The BGT was transported for recycling.

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method 95 bbl BGT	Release Verification (mg/Kg)	Sample results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	< 0.045
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.090
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<46
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 under the BGT was sampled for TPH, BTEX and chloride. BTEX, TPH and chloride concentrations were below the stated limits. The field report and laboratory reports are attached.

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

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

Sampling results indicate no significant release has occurred. However, during the BGT removal, BP discovered an abandoned flowline that had leaked and impacted the site. The site was remediated to the NMOCD closure standards and completed on March 29, 2016.

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

Sampling results determine no significant 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 area has been backfilled and will be reclaimed once the well has been plugged and abandoned.

11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and all practicable efforts will be made to prevent ponding of water and erosion of the cover material.

The area has been backfilled and will be reclaimed once the well has been plugged and abandoned.

12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

The area has been backfilled and will be reclaimed once the well has been plugged and abandoned.

13. BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.

The area has been backfilled and will be reclaimed once the well has been plugged and abandoned.

 Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BP shall notify the NMOCD when it has seeded or planted and when it successfully achieves revegetation.

BP will notify NMOCD when re-vegetation is successful.

- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation.
 Closure report on C-144 form is included including photos of reclamation completion.
- 16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

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

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141

Revised August 8, 2011

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

						OPERA'	ГOR	Init	ial Report Final Re
Name of Co	ompany: B	P			(Contact: Ste	eve Moskal		
		Court, Farm	ington, N	M 87401			No.: 505-326-94		
Facility Na	me: Galleg	gos Canyon l	Unit 194E	3]	Facility Typ	e: Natural gas	well	
Surface Ow	ner: State			Mineral (Owner: S	State		API N	o. 3004526363
				LOC	ATION	OF RE	LEASE		
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Line	County: San Juan
L	5	27N	12W	1,840	South		800	West	
		Lati	itude36		TURE	Longitude OF REL	e108.14122 EASE		
Type of Rele							Release: unknov		Recovered: N/A
Source of Re	lease: belov	w grade tank -	- 95 bbl				Iour of Occurrent	ce: Date and	Hour of Discovery: none
Was Immedi	ata Notice (Civan?				none If YES, To	Whom?		
v as immedi	ate Notice (Yes 🗵	No Not R	equired	II 1ES, 10	WHOILE		
By Whom?						Date and F	Iour		
Was a Water	course Rea					If YES, Vo	olume Impacting	the Watercourse.	
			Yes 🛚	No					
31EX, 1PH	and chlorid	e below stand	ards. Fie	ld reports and lab	oratory r	esults are atta	ached.		
Describe Are	a Affected	and Cleanup	Action Tak	cen.* No action n	ecessary.	Final labora	tory analysis sup	ported closure of t	he BGT location.
regulations a public health should their or the enviro	or the envi operations h nment. In a	are required to ronment. The nave failed to	o report ar acceptant adequately OCD accep	nd/or file certain to be of a C-141 report investigate and in	release no ort by the remediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr	ctive actions for re teport" does not re eat to ground water	rsuant to NMOCD rules and leases which may endanger lieve the operator of liability er, surface water, human healt compliance with any other
							OIL CON	SERVATION	DIVISION
Signature:	ta	May)						
rinted Nam	e: Steve Mo	oskal			1	Approved by	Environmental S	pecialist:	
itle: Field E	invironmen	tal Coordinate	or		1	Approval Dat	e:	Expiration	Date:
-mail Addre	ess: steven.i	moskal@bp.co	om		(Conditions of	Approval:		Attached
Date: April		ets If Necess		05-326-9497					



BP America Production Company 200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

February 4, 2016

Bureau of Land Management Katherina Diemer 6251 College Suite A Farmington, NM 87402

VIA CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Re: Notification of plans to close/remove a below grade tank

Well Name: GCU 194E API #: 3004526363

Dear Mrs. Diemer,

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 a below grade tank on its well pad located on your surface. BP plans to commence this work on or about February 9, 2016. 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 (505)-326-9497.

Sincerely,

Steven Moskal

BP America Production Company

Moskal, Steven

From:

Moskal, Steven

Sent:

Thursday, February 04, 2016 3:33 PM

To:

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

Cc:

jeffcblagg@aol.com; blagg_njv@yahoo.com; Railsback, Farrah (CH2M HILL); mflanike@blm.gov

Subject:

RE: BP Pit Close Notification - GCU 194E

All - The BGT is scheduled to be removed at 11:30 AM on Monday, February 8, 2016.

Thank you,

Steve Moskal

BP Lower 48 - San Juan - Farmington Field Environmental Coordinator Office: (505) 326-9497 Cell: (505) 330-9179



From: Railsback, Farrah (CH2M HILL)

Sent: Thursday, February 04, 2016 2:21 PM

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

Cc: jeffcblagg@aol.com; blagg_njv@yahoo.com; Moskal, Steven

Subject: BP Pit Close Notification - GCU 194E

BP America Production Company

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

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

February 4, 2016

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

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

GALLEGOS CANYON UNIT 194E API 30-045-26363 (L) Section 5 – T27N – R12W 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 95 bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around February 9, 2016.

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

Sincerely,

Steven Moskal BP Field Environmental Coordinator

(505) 326-9497

DATE STATED DATE STALE BENCALISTS: NJV SAMPLE DATE SAMPLE DATE DATE STATED DA					
	(50	5) 632-1199		(if applicble): A	
FIELD REPORT:	(circle one): BGT CONFIRMATION	RELEASE INVESTIGATION / O	THER:	PAGE #:1 o	f <u>1</u>
SITE INFORMATION	I: SITE NAME: GCU #	194E		DATE STARTED: 02/0	08/16
QUAD/UNIT: L SEC: 5 TWP:	27N RNG: 12W PM:	NM CNTY: SJ	ST: NM	DATE FINISHED:	
1/4-1/4/FOOTAGE: 1,840'S / 80	O'W NW/SE LEASE T		FEE / INDIAN		
LEASE #. SF078902	PROD. FORMATION: DK/GP CO	ONTRACTOR: MBF - B. S	CHUMAN	SPECIALIST(S):	JV
REFERENCE POINT	T: WELL HEAD (W.H.) GPS	COORD.: 36.6021	0 X 108.14131	GL ELEV.: 5	,614'
1) 95 BGT (DW/DB)	GPS COORD.: 36	the second of the second of the second		RING FROM W.H.: 110', S1	17.5E
2)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
3)	GPS COORD.:		DISTANCE/BEAF	RING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BEAF	RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # C	OR LAB USED: HALL			OVM READING (ppm)
1) SAMPLE ID: 5PC - TB @7.5'	- 8' (95) SAMPLE DATE: 02/08/	16 SAMPLETIME: 1158	LAB ANALYSIS: 801	5B/8021B/300.0 (CI)	36.5
2) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND	SILT SILTY CLAY CLAY GRAVE	LOTHER ROAD	BASE	
SOIL COLOR: LIGHT OLIVE GRAY	(beneath road base & bgt)	PLASTICITY (CLAYS): NON PLASTIC	SLIGHTLY PLASTIC CO	OHESIVE MEDIUM PLASTIC HIGH	LY PLASTIC
			EXPLANATION - PAR	TICULARLY FROM DISCOL	ORED
			SE VEEL NO EVELAN	ATION PRESIDENCE FROM	ONIONA
		BLACK @ SW QUADRANT	OF BGT.	PRESUMED FROM	MELT.
APPARENT EVIDENCE OF A RELEASE OBSERVE	D AND/OR OCCURRED YES NO EXPL	ANATION: VISUALLY & PHYSIC	CAL ODOR.		
OTHER: IMPORTED ROAD BASE BENEZ	AIR BGI BETWEEN 3 - 6.5 FT. BE	LOW GRADE.			
SOIL IMPACT DIMENSION ESTIMATION:	? ft. X ?	ft. X ? ft.		TMATION (Cubic Yards) : _	?
	EAREST WATER SOURCE: >1,000	NEAREST SURFACE WATER:	<1,000' NMOC	D TPH CLOSURE STD: 10	0 ppm
SITE SKETCH	BGT Located: off on site	PLOT PLAN circ	le: attached 0VM	CALIB. READ. = 53.2 ppr	m RF=0.52
			♠ own	CALIB. GAS = 100 ppr	
W.H.		SEPARATOR	TIME	12:18 ampm DATE: 02	/08/16
BERM				MISCELL. NOT	ES
BERTW			l w	0:	
		PBGTL T.B. ~ 5'	RI	EF#: P-264	SHIR
FENCE		B.G.		D: VHIXONEVB2	Total
**			P	J#:	7-17
	X		Pe	ermit date(s): 06/14	/10
DI	ROD VISUAL	OF.		CD Appr. date(s): 11/23	3/15
	ANK ABANDOI	NED	Tan ID	ppm = parts per million	
	POLY LII	NE.	A	BGT Sidewalls Visible: Y /(I	_
		X	- S.P.D.	BGT Sidewalls Visible: Y / I	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION TO - TANK POTTON PROTI - DREMONS BEL			CONTROL OF THE PARTY OF THE PAR	BGT Sidewalls Visible: Y / I	
	.OWAGRADE TANK LOCATION; SPD = SAMPLE P E WALL; DW - DOUBLE WALL; SB - SINGLE BOT		WALL, NA-NOI M	agnetic declination: 10	E
NOTES: GOOGLE EARTH IMAG	ERY DATE: 3/15/2015.	ONSITE: 02/08/1	16		The same

Analytical Report

Lab Order 1602290

Date Reported: 2/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 7'-8' (95)

Project: GCU #194E

Collection Date: 2/8/2016 11:58:00 AM

Lab ID: 1602290-001

Matrix: SOIL

Received Date: 2/9/2016 7:15:00 AM

Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS		i piloto de			Analyst	LGT
Chloride	ND	30	mg/Kg	20	2/9/2016 1:07:16 PM	23636
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	JME
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/9/2016 10:23:34 AM	23629
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/9/2016 10:23:34 AM	23629
Surr: DNOP	106	70-130	%Rec	1	2/9/2016 10:23:34 AM	23629
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	2/9/2016 12:35:27 PM	23618
Surr: BFB	93.9	66.2-112	%Rec	1	2/9/2016 12:35:27 PM	23618
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.045	mg/Kg	1	2/9/2016 12:35:27 PM	23618
Toluene	ND	0.045	mg/Kg	1	2/9/2016 12:35:27 PM	23618
Ethylbenzene	ND	0.045	mg/Kg	1	2/9/2016 12:35:27 PM	23618
Xylenes, Total	ND	0.090	mg/Kg	1	2/9/2016 12:35:27 PM	23618
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	2/9/2016 12:35:27 PM	23618

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

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CI	nain-c	of-Cus	tody Record	Turn-Around	Time:	SAME				Н	AL	L	EN	V	ΙR	OI	NM	1EP	NTA	AL	
lient:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	☑ Rush _	DAY				A	N/	L	S.	S	L	AB	O	RA	TO	RY	,
				Project Name						1	www	.hall	envi	roni	mer	ntal.	com				
/ailing A	ddress:	P.O. BOX	K 87	1	GCU # 194	ΙE		49	01 H	awki	ins N	E	Albu	que	rqu	e, N	M 8	7109			
		BLOOM	FIELD, NM 87413	Project #:				Te	1. 50	5-34	5-39	75	Fa	x 50	05-3	345-4	4107	7			
hone #:		(505) 63	2-1199									An	alys	is F	Requ	uest	t				
mail or I	ax#:			Project Mana	ger:								1-	4)		\neg		300.1)			
A/QC Pa			Level 4 (Full Validation)		NELSON VI	LEZ	MB4s (8021B)	(Gas only)	/ MRO)			(5)		204,30	2 PCB's			water - 30		9	
ccredita	tion:			Sampler:	NELSON VI	LEZ ny	38	(Ga	DRO	1	1	OSIN	9	2	8082	- 1				sample	
NELAF	•	□ Other		THE RESIDENCE OF THE PERSON NAMED IN	The state of the s	⊡ No	#	TPH	-	418.1)	504	827	S	<u> </u>	_		(A)	300.0		re sa	N N
EDD (Type)	1 1		Sample Temp	erature: 14		1	BE +	(GRO	pou	pou	or	etal	3	icide	(A)	y-ir	oil-	ple	posi	2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +-MF	BTEX + MTBE	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (r,Cl,NO3,NO2,PO4,3O4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soll -	Grab sample	5 pt. composite	l B
2/8/16	1158	SOIL	5PC - TB @ 7' - 8' (95)	4 oz 1	Cool	-201	٧		٧									٧		٧	
													1								
															1						\vdash
											1		1	1	1						\Box
												1	1	1	1			1			П
												1	1	+	\top	\dashv			\top		П
							-					1		\dagger	_						\Box
													+	\dagger	+			+	+	+	Н
-												1	1	+	\forall			1	+	\top	Н
	-											\rightarrow	1	+	+	1		+	+	+	H
													+	1	1			+	+	+	H
137													_	+	+			+	+	+	H
ate: 2/8/16	Time: 1657	Relinquishe	In VI	Received by:	alta	Date Time 2/8/14 1/457	BI	700	RECT	LY T					_1						
ate:	Time: 1832	Relinquishe	ed by: Mt Would mitted to Hall Environmental may be su	Received by:	Mi	Date Time 2/04/16 07/5	Re	fere	nce #	#:	F	-264	_	_ P	Payk	ey:	V		NEVB2		8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602290

11-Feb-16

Client:

Blagg Engineering

Project:

GCU #194E

Sample ID MB-23636

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 23636

RunNo: 32042

Prep Date: 2/9/2016

Sample ID LCS-23636

Analysis Date: 2/9/2016

SeqNo: 979848

Units: mg/Kg HighLimit

%RPD **RPDLimit**

Qual

Analyte Chloride

Result ND PQL SPK value SPK Ref Val %REC LowLimit 1.5

SampType: LCS

TestCode: EPA Method 300.0: Anions

%RPD

Client ID:

LCSS

Batch ID: 23636

PQL

1.5

RunNo: 32042

Prep Date: 2/9/2016

Analysis Date: 2/9/2016

SeqNo: 979849

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

Chloride

15

97.2

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Page 2 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Result

45

4.8

PQL

10

WO#:

1602290

11-Feb-16

Client:

Blagg Engineering

Project:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

GCU #194E

Sample ID MB-23629 Client ID: PBS Prep Date: 2/9/2016	ID: PBS Batch ID: 23629			F	tCode: E RunNo: 3 SeqNo: 9	2003	od 8015M/D: Diesel Range Organics 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	11		10.00		108	70	130					
Sample ID LCS-23629	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics			
Client ID: LCSS	Batch	ID: 23	629	F	RunNo: 3	2003						
Prep Date: 2/9/2016	Analysis D	ate: 2/	9/2016	9	SeaNo: 9	78606	Units: mg/K	a				

LowLimit

65.8

70

89.7

96.0

HighLimit

136

130

%RPD

RPDLimit

Qual

SPK value SPK Ref Val %REC

50.00

5.000

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

R RPD outside accepted recovery limits

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602290

11-Feb-16

Client:

Blagg Engineering

Project:

GCU #194E

Surr: BFB	920		1000		91.7	66.2	112			
Gasoline Range Organics (GRO)	ND	5.0								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: 2/8/2016	Analysis D)ate: 2/	9/2016	S	eqNo: 9	79137	Units: mg/K	g		
Client ID: PBS	Batcl	n ID: 23	618	R	tunNo: 3	2007				
Sample ID MB-23618	Samp	ype: ME	BLK	Test	Code: El	PA Method	8015D: Gaso	line Rang	е	

Client ID: LCSS Batch ID: 23618 RunNo: 32007 Prep Date: 2/8/2016 Analysis Date: 2/9/2016 SeqNo: 979138 Units: mg/Kg %RPD **RPDLimit** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 22 25.00 89.9 79.6 Surr: BFB 990 1000 99.3 66.2 112

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

R RPD outside accepted recovery limits

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602290

11-Feb-16

Client:

Blagg Engineering

Project:

GCU #194E

Sample ID MB-23618	Samp	Type: Mi	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 23	618	F	RunNo: 3	2007				
Prep Date: 2/8/2016	Analysis [Date: 2	9/2016	8	SeqNo: 9	79144	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID LCS-23618	Samp*	Type: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 23	618	F	RunNo: 3	2007				
Prep Date: 2/8/2016	Analysis [Date: 2/	9/2016	5	SeqNo: 9	79145	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	91.9	80	120			
Toluene	0.97	0.050	1.000	0	96.6	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		118	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

R RPD outside accepted recovery limits

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 5 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

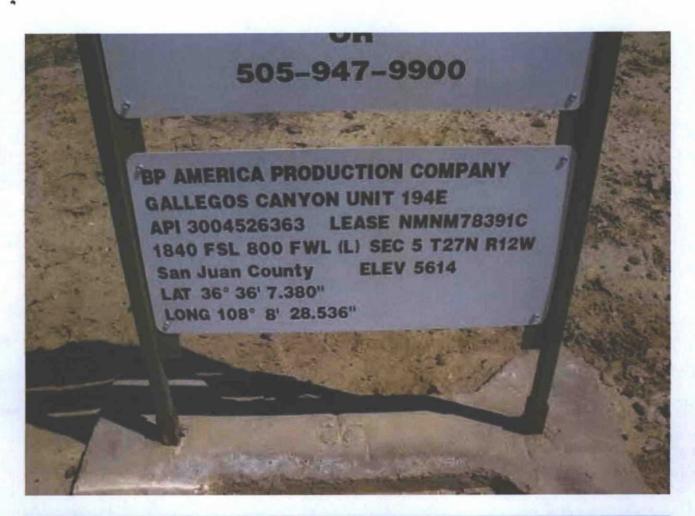


Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	BLAGG	Work Order Number	1602290		RcptNo:	1
Received by/da	ate: A 62/0	9/16				
Logged By:	Anne Thorne	2/9/2016 7:15:00 AM		anne Il	_	
Completed By:	Anne Thorne	2/9/2016,		anne In-		
Reviewed By:	OB	2 19/16		CAME JUL		
Chain of Cu	stody					
1. Custody se	eals intact on sample bottle	s?	Yes	No 🗆	Not Present 🗹	
2. Is Chain of	Custody complete?		Yes 🗸	No 🗆	Not Present	
3. How was th	ne sample delivered?		Courier			
Log In						
4. Was an att	tempt made to cool the san	nples?	Yes 🗹	No □	NA 🗆	
5. Were all sa	amples received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s)	in proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient s	ample volume for indicated	test(s)?	Yes 🗹	No 🗌		
8. Are sample	es (except VOA and ONG) p	properly preserved?	Yes 🗸	No 🗌		
9. Was presen	rvative added to bottles?		Yes	No 🗹	NA 🗆	
10.VOA vials h	nave zero headspace?		Yes 🗌	No 🗆	No VOA Vials	
11. Were any s	sample containers received	broken?	Yes	No 🗸	# =6 ======	
				_	# of preserved bottles checked	
The state of the s	rwork match bottle labels? epancies on chain of custoo	tv)	Yes 🗸	No L	for pH: (<2 o	r >12 unless noted)
	es correctly identified on Ch	7.5	Yes 🗸	No 🗆	Adjusted?	
	hat analyses were requeste		Yes 🗸	No 🗆		
15. Were all ho	olding times able to be met?		Yes ✓	No 🗆	Checked by:	
		.,				
Special Hand	dling (if applicable)					
16. Was client	notified of all discrepancies	with this order?	Yes	No 🗌	NA 🗹	
Perso	on Notified:	Date				Nillian
By W	hom:	Via: [eMail [Phone Fax	In Person	
Rega	rding:					
Client	t Instructions:					1 10 20
17. Additional	remarks:					W 9-1
18. Cooler Inf	formation					
Cooler N	A CONTRACTOR OF THE PARTY OF TH	Seal Intact Seal No S	Seal Date	Signed By		
1	1.4 Good	Yes		1		





CLIENT: BP	P.O. BOX 87,	ENGINEERIN BLOOMFIELI 505) 632-1199	D, NM 87413	API #: 3004526 TANK ID (if applicble): A	
FIELD REPORT:	(circle one): BGT CONFIRMATIC	ON / RELEASE INVESTIGA	TION / OTHER:	PAGE #: 1 0	of
SITE INFORMATION	I: SITE NAME: GCU	# 194E		DATE STARTED: 02/0	08/16
QUAD/UNIT: L SEC: 5 TWP:	27N RNG: 12W	PM: NM CNTY:	SJ ST: NM	DATE FINISHED:	
1/4-1/4/FOOTAGE: 1,840'S / 800 LEASE #: SF078902	D'W NW/SE LEAS PROD. FORMATION: DK/GF	CTI	STATE / FEE / INDIAN	EMRONMENTAL SPECIALIST(S):	JV
REFERENCE POINT				1 GL ELEV.: 5	614
1) 95 BGT (DW/DB)		36.60182 X 108.14	6.60210 X 108.1413	BEARING FROM WH.: 110', S'	-
2)	GPS COORD.:	001001027(10011		BEARING FROM W.H.:	
3)	GPS COORD.:			BEARING FROM WH.:	
4)	GPS COORD.:			BEARING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED:	HALL		OVM READING
1) SAMPLE ID: 1@5'		and the state of t	100.000	015B/8021B/300.0 (CI)	1,920
2) SAMPLE ID: 1A @ 8'				015B/8021B/300.0 (CI)	65
3) SAMPLE ID: 1B @ 8.5'	SAMPLE DATE: 02/			015B/8021B/300.0 (CI)	31.8
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:		
SOIL DESCRIPTION	- a marriage to be become - 2	and the second of the		AD BASE	
SOIL COLOR: MOSTLY DARK YELLO 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 IN	COHESIVE COHESIVE / HIGHLY COHESIVE / ONESIVE COHESIVE / HIGHLY COHESIVES FIRM (DENSE) VERY DENSE SATURATED / SUPER SATURATED / S	DENSITY (COHESIVE HC ODOR DETECTED: D SOIL ANY AREAS DISPLAYIN	CLAYS & SILTS): SOFT (FIR YES NO EXPLANATION - P.	(COHESIVE) MEDIUM PLASTIC (HIGH M)(STIFF) VERY STIFF / HARD ARTICULARLY FROM DISCOL LANATION - PRESUMED FROM	ORED
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: IMPORTED ROAD BASE BENEA	DAND/OR OCCURRED: YES NO EYES / NO EXPLANATION - UNK	EXPLANATION: VISUALLY &			
SOIL IMPACT DIMENSION ESTIMATION:	? ft. X ?			STIMATION (Cubic Yards):	?
	EAREST WATER SOURCE: >1,0	000' NEAREST SURFACE	WATER: <1,000' NA	OCD TPH CLOSURE STD: 10	00 ppm
SITE SKETCH	BGT Located: off on	site PLOT PLA	N circle: attached	MM CALIB. READ. = 53.2 pp	m RF =0.52
TO A W.H.		\	2272	MM CALIB, GAS = 100 pp	
State of the state		SEPARATOR	N	IME: 12:18 am/pm DATE: 02	/08/16
BERM			'[MISCELL. NOT	ΓES
The state of the s	1	PBGTL		WO:	
FENCE.	6	T.B. ~ 5'	1.7	REF#: P - 264	
PENCE		B.G.		VID: VHIXONEVB2	
		GRAB S.P.D.		PJ#:	1/40
	X			Permit date(s): 06/14	and the same
1997		IAL OF		OCD Appr. date(s): 11/23 Tank OVM = Organic Vapor Met	5/15 ter
	A CONTRACTOR OF THE CONTRACTOR	IDONED Y LINE		ppm = parts per million BGT Sidewalls Visible: Y /	N)
			X - S.P.D.	BGT Sidewalls Visible: Y /	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO	N DEPRESSION: B.G. = BELOW GRADE: F	B = BELOW, T.H. = TEST HOLF: ~=		BGT Sidewalls Visible: Y /	N
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELI APPLICABLE OR NOT AVAILABLE; SW - SINGLE	OW-GRADE TANK LOCATION; SPD = SAMP	LE POINT DESIGNATION; R.W. =	RETAINING WALL; NA-NOT	Magnetic declination: 10	°E
NOTES: GOOGLE EARTH IMAGE		ONSITE:		THE RESERVE	

Date Reported: 2/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 1 @ 6'

Project:

GCU #194E

Collection Date: 2/8/2016 11:58:00 AM

Lab ID: 1602289-001

Matrix: SOIL

Received Date: 2/9/2016 7:15:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: LGT
Chloride	ND	30		mg/Kg	20	2/9/2016 12:30:02 PM	23636
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S				Analyst	: JME
Diesel Range Organics (DRO)	510	9.8		mg/Kg	1	2/9/2016 11:50:40 AM	23629
Surr: DNOP	104	70-130		%Rec	1	2/9/2016 11:50:40 AM	23629
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	1100	71		mg/Kg	25	2/9/2016 11:24:40 AM	23618
Surr: BFB	385	66.2-112	S	%Rec	25	2/9/2016 11:24:40 AM	23618
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.50	0.35		mg/Kg	25	2/9/2016 11:24:40 AM	23618
Toluene	2.1	0.71		mg/Kg	25	2/9/2016 11:24:40 AM	23618
Ethylbenzene	ND	0.71		mg/Kg	25	2/9/2016 11:24:40 AM	23618
Xylenes, Total	27	1.4		mg/Kg	25	2/9/2016 11:24:40 AM	23618
Surr: 4-Bromofluorobenzene	140	80-120	S	%Rec	25	2/9/2016 11:24:40 AM	23618

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

- 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1602289

Date Reported: 2/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 1A @ 8'

Project:

GCU #194E

Collection Date: 2/8/2016 12:07:00 PM

Lab ID:

1602289-002

Matrix: SOIL

Received Date: 2/9/2016 7:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	ND	30	mg/Kg	20	2/9/2016 1:19:41 PM	23636
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/9/2016 12:12:29 PM	23629
Surr: DNOP	106	70-130	%Rec	1	2/9/2016 12:12:29 PM	23629
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	2/9/2016 11:48:25 AM	23618
Surr: BFB	106	66.2-112	%Rec	1	2/9/2016 11:48:25 AM	23618
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.042	mg/Kg	1	2/9/2016 11:48:25 AM	23618
Toluene	ND	0.042	mg/Kg	1	2/9/2016 11:48:25 AM	23618
Ethylbenzene	ND	0.042	mg/Kg	1	2/9/2016 11:48:25 AM	23618
Xylenes, Total	ND	0.085	mg/Kg	1	2/9/2016 11:48:25 AM	23618
Surr: 4-Bromofluorobenzene	114	80-120	%Rec	1	2/9/2016 11:48:25 AM	23618

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

- 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
- R RPD outside accepted recovery limits
- 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 2 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1602289

Date Reported: 2/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 1B @ 8.5'

Project:

GCU #194E

Collection Date: 2/8/2016 12:11:00 PM

Lab ID:

1602289-003

Matrix: SOIL

Received Date: 2/9/2016 7:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	ND	30	mg/Kg	20	2/9/2016 12:54:51 PM	23636
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/9/2016 12:34:14 PM	23629
Surr: DNOP	106	70-130	%Rec	1	2/9/2016 12:34:14 PM	23629
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	2/9/2016 12:11:58 PM	23618
Surr: BFB	100	66.2-112	%Rec	1	2/9/2016 12:11:58 PM	23618
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.037	mg/Kg	1	2/9/2016 12:11:58 PM	23618
Toluene	ND	0.037	mg/Kg	1	2/9/2016 12:11:58 PM	23618
Ethylbenzene	ND	0.037	mg/Kg	1	2/9/2016 12:11:58 PM	23618
Xylenes, Total	ND	0.074	mg/Kg	1	2/9/2016 12:11:58 PM	23618
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	2/9/2016 12:11:58 PM	23618

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits % 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 3 of 4 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

CI	hain-c	of-Cus	tody Record	Turn-Around	rime:	SAME		1	1	Н	ΙΔ		F	WW	TE	20	NI	ME	NT	CAI		
lient:	BLAG	G ENGR.	/ BP AMERICA	Standard Project Name	Rush_	DAY)				A	N		YS	SIS	S L	A	30	R/	AT(
/lailing A	ddress:	P.O. BOX	X 87		GCU # 194	IE .		49	01 H	awk									9			
		BLOOMI	FIELD, NM 87413	Project #:	T-MANUEL CONTRACTOR OF THE CON	3 - 3 - 1				5-34							410					
hone #:	9	(505) 63	2-1199						1			А	nal	/sis	Red	ques	st					T
mail or I	Fax#:			Project Manag	ger:			-	200					4)		73		300.1)				
≀A/QC Pa ✓ Stand			Level 4 (Full Validation)		NELSON VE	ELEZ	(80218)	(kjuo si	/ PMRO			(S)		PO4,50	2 PCB's			water - 300			9	
ccredita	tion:			Sampler:	NELSON VE	ELEZ 977	8	I (Ga	DRO	F	न	8270SIMS)		NO ₂	808			-			sample	
NELA		□ Other		Control States of the second States and the second States and Stat	The state of the s	□ No = = =	1	TP	-	418	504.1)		S	103,	/ sa		OA)	300.0			te s	or N
EDD (Type)			Sample Temp	erature: ,	4	T	rBE +	3 (GF	hod	hod	0 or	leta	,C,	ticid	(AC	Ni-V	1		ple	posi	S (Y
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +-MH	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method	PAH (8310	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	5 pt. composite	Air Bubbles (Y or N)
2/8/16	1158	SOIL	1@5'	4 oz 1	Cool	-201	٧		٧									٧	_	٧		- 20.
2/8/16	1207	SOIL	1A @ 8'	4 oz 1	Cool	-02	٧		٧									٧	_	٧		_
2/8/16	1211	SOIL	1B @ 8.5'	4 oz 1	Cool	703	٧		٧									٧		٧		
					,														1	_		
														_					7	1		
																			7	1		
2/8/16 Date:	Time: 1657 Time: 1832	Relinquishe Relinquishe	w/J	Received by:	t Wall	Date Time 2/8/14/1657 Date Time, 02/09/16	BI	eve I	RECT Mosk	LY To al, 20	O Er	nergy				ingto			401 ONEV	B2		
11.0	If necessary	kamples sub	mitted to Hall Environmental may be su	beautracted to other s	accredited laboratorie	s. This serves as notice of	of this	nneeli	allida .	America		frante	d data	d like	a alac	rhi no	totad s	on the	anah di	inal sa		

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602289

11-Feb-16

Client:

Blagg Engineering

Project:

GCU #194E

Sample ID MB-23636

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 23636

PQL

RunNo: 32042

Prep Date: 2/9/2016 Analysis Date: 2/9/2016

Units: mg/Kg

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

SeqNo: 979848

HighLimit

RPDLimit

Qual

Chloride

ND 1.5

Sample ID LCS-23636

SampType: LCS

TestCode: EPA Method 300.0: Anions

LCSS Client ID: Prep Date: 2/9/2016

Batch ID: 23636

RunNo: 32042

SeqNo: 979849

Units: mg/Kg

Analyte

Analysis Date: 2/9/2016

15

SPK value SPK Ref Val %REC LowLimit

97.2

HighLimit 110 %RPD **RPDLimit**

Qual

15.00

%RPD

Chloride

1.5

0

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

RPD outside accepted recovery limits R

% 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

Reporting Detection Limit Sample container temperature is out of limit as specified Page 1 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602289

11-Feb-16

Client:

Blagg Engineering

Project:

GCU #194E

Sample ID MB-23629	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batc	h ID: 23	629	F	RunNo: 3	2003				
Prep Date: 2/9/2016	Analysis [Date: 2/	9/2016	\$	SeqNo: 9	78604	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		108	70	130			
Sample ID LCS-23629	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batc	h ID: 23	629	F	RunNo: 3	2003				
Prep Date: 2/9/2016	Analysis E	Date: 2/	9/2016	S	SeqNo: 9	78606	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.7	65.8	136			
Surr: DNOP	4.8		5.000		96.0	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

R RPD outside accepted recovery limits

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 2 of 4

P Sample pH Not In Range

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

990

WO#:

1602289

11-Feb-16

Client:

Blagg Engineering

Project:

Surr: BFB

GCU #194E

Sample ID MB-23618 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: **PBS** Batch ID: 23618 RunNo: 32007 Prep Date: 2/8/2016 Analysis Date: 2/9/2016 SegNo: 979137 Units: mg/Kg Analyte Result SPK value SPK Ref Val %REC LowLimit %RPD PQL HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 920 1000 91.7 66.2 112 Sample ID LCS-23618 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 23618 RunNo: 32007 Prep Date: 2/8/2016 Analysis Date: 2/9/2016 SeqNo: 979138 Units: mg/Kg PQL Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 89.9 79.6 122

99.3

66.2

112

1000

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

P Sample pH Not In Range

- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1602289

11-Feb-16

Client:

Blagg Engineering

Project:

GCU #194E

Sample ID MB-23618	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 23	618	F	RunNo: 3	2007				
Prep Date: 2/8/2016	Analysis D	Date: 2/	9/2016	8	SeqNo: 9	79144	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID LCS-23618	Samp	Type: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 23	618	F	RunNo: 3	2007				
Prep Date: 2/8/2016	Analysis D	Date: 2/	9/2016	5	SeqNo: 9	79145	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	91.9	80	120			
Toluene	0.97	0.050	1.000	0	96.6	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.7	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		118	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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1602289 RcptNo: 1 Received by/date: am Ilm Logged By: 2/9/2016 7:15:00 AM Anne Thorne anne Ilm Completed By: Anne Thorne Reviewed By: Chain of Custody Yes No _ Not Present ✓ 1. Custody seals intact on sample bottles? Yes V No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No [NA 🗌 Yes V 4. Was an attempt made to cool the samples? No 🗌 NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 🗌 Yes V 6. Sample(s) in proper container(s)? No 🗌 Yes V 7. Sufficient sample volume for indicated test(s)? No 🗌 8. Are samples (except VOA and ONG) properly preserved? Yes V NA 🗌 Yes No V 9. Was preservative added to bottles? Yes No No VOA Vials V 10. VOA vials have zero headspace? Yes -No V 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗌 12. Does paperwork match bottle labels? Yes V (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes V 13. Are matrices correctly identified on Chain of Custody? No 🗌 Yes V 14. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA V 16. Was client notified of all discrepancies with this order? Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Signed By Good Yes