Form C-144 July 21, 2008

District 1
1625 N. French Dr., Hobbs, NM 88240
District III
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Pit, Closed-Loop System, Below-Grade Tank, or

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.

Proposed Alternative Method Permit or Closure Plan Application								
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 ordinance								
Operator: BP AMERICA PRODUCTION COMPANY Address: 200 Energy Court, Farmington, NM 87401 Facility or well name: GALLEGOS CANYON UNIT 190E								
API Number: 3004525450 OCD Permit Number:								
U/L or Qtr/Qtr K Section 32.0 Township 28.0N Range 12W County: San Juan County								
Center of Proposed Design: Latitude 36.61602 Longitude -108.13791 NAD: ☐1927 ☑ 1983								
Surface Owner: ☐ Federal ☐ State ☐ Private ➤ Tribal Trust or Indian Allotment								
Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: Drilling Workover RCVD JAM 22 14 Permanent Emergency Cavitation P&A DIL CONS. DIV. Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC OtherDIST_3 String-Reinforced Volume: bbl Dimensions: Lx Wx 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 Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other Drying Pad Factory Other Drying Pad Delay PVC Other Delay PVC Other Drying Pad Delay PVC Other Drying Pad Delay PVC Other Drying PvC Dryi								
4. Below-grade tank: Subsection of 19.15.17.11 NMAC Tank ID: A								

Form C-144

Tank Construction material: Steel

Liner type: Thickness

Alternative Method:

Oil Conservation Division

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

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Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify 4' Hogwire with single barbed wire							
7. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)							
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 office (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 acce material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the submitted to the Santa Fe Environmental Bureau office for consideration of applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.							
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 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 							
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							
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						

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Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. ★ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: (Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
13. 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 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 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 Erossion Control Plan Erossion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
14. 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 Instructions: Please indentify the facility or facilities for the disposal of liquids, facilities are required.	Steel Tanks or Haul-off Bins Only: (19.15.17.13.E drilling fluids and drill cuttings. Use attachment if n	NMAC) nore than two					
Disposal Facility Name:	Disposal Facility Permit Number:						
Disposal Facility Name:	Disposal Facility Permit Number:						
Will any of the proposed closed-loop system operations and associated activities of Yes (If yes, please provide the information below) No							
Required for impacted areas which will not be used for future service and operation of Soil Backfill and Cover Design Specifications based upon the appropriate Re-vegetation Plan - based upon the appropriate requirements of Subsection of Site Reclamation Plan - based upon the appropriate requirements of Subsection	te requirements of Subsection H of 19.15.17.13 NMAO n I of 19.15.17.13 NMAC	C					
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the provided below. Requests regarding changes to certain siting criteria may reque considered an exception which must be submitted to the Santa Fe Environment demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC	ire administrative approval from the appropriate disti al Bureau office for consideration of approval. Justi	rict office or may be					
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Da	ta 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							
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							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image							
Within 500 horizontal feet of a 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; Visual inspection (certification) of the proposed site							
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality							
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Vist	ual 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-Minin	g and Mineral Division	☐ Yes ☐ No					
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geolog Society; Topographic map	gy & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No					
Within a 100-year floodplain FEMA map		☐ Yes ☐ No					
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Construction/Design Plan of Burial Trench (if applicable) based upon the a Construction/Design Plan of Temporary Pit (for in-place burial of a drying Protocols and Procedures - based upon the appropriate requirements of 19.1 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Disposal Facility Name and Permit Number (for liquids, drilling fluids and Soil Cover Design - based upon the appropriate requirements of Subsection Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection	quirements of 19.15.17.10 NMAC of Subsection F of 19.15.17.13 NMAC appropriate requirements of 19.15.17.11 NMAC pad) - based upon the appropriate requirements of 19. 5.17.13 NMAC quirements of Subsection F of 19.15.17.13 NMAC of Subsection F of 19.15.17.13 NMAC drill cuttings or in case on-site closure standards cannot H of 19.15.17.13 NMAC of 19.15.17.13 NMAC	15.17.11 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): Jeffrey/Peace Title: Field Environmental Advisor
Signature: Date: 06\14\2010
e-mail address: Peace.Jeffrey@bp.com Telephone: 505-326-9479
OCD Approval: Permit Application (including closure plat) Closure Plan (only) DCD/Gonditions (see attachment)
S 1 1 2 1/23/2014
OCD Representative Signature: 3/19/17
Title: Dermit 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: 7-19-2013
22. 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 will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) 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
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) 36.61602 Longitude —108.13791 NAD: 1927 1983
25.
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): Jeff Peace Title: Field Environmental Advisor
1 00 0
Name (Print): Teff Peace Signature: Date: Tanuary 21, 2014 e-mail address: Peace-jeffrey @ bp. com Telephone: (505) 326-9479

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Gallegos Canyon Unit 190E API No. 3004525450 Unit Letter K, Section 32, T28N, R12W RCVD JAN 22'14 OIL CONS. DIV. DIST. 3

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

General Closure Plan

- 1. BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.
 - No notice was made due to misunderstanding of the notice requirements. BP did not think notice was necessary if BGT was removed as part of plug and abandon operations. Closure notices will be made for all BGT closures from this point forward.
- 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.
 - No notice was made due to misunderstanding of the notice requirements. BP did not think notice was necessary if BGT was removed as part of plug and abandon operations. Closure notices will be made for all BGT closures from this point forward.

- 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 to a storage area for sale and re-use.

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
		(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	ND
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	ND
TPH	US EPA Method SW-846 418.1	100	ND
Chlorides	US EPA Method 300.0 or 4500B	250 or background	ND

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 and TPH, BTEX, and chloride levels were below the stated limits. Sampling data is 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 release 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, 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

The area under the BGT was backfilled with clean soil. It is within the area that will be reclaimed as part of final reclamation.

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 under the BGT was backfilled with clean soil. It is within the area that will be reclaimed as part of final reclamation.

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 under the BGT was backfilled with clean soil. It is within the area that will be reclaimed as part of final reclamation.

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 under the BGT was backfilled with clean soil. It is within the area that will be reclaimed as part of final reclamation.

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.

BP will seed the area as part of final reclamation.

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

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.
- 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
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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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action															
							TOR	[Initia	l Report	\boxtimes	Final Report			
L							Contact: Jeff Peace								
							lo.: 505-326-94					•			
Facility Nar	ne: Galleg	os Canyon U	nit 190E			Facility Typ	e: Natural gas v	vell				.,,			
Surface Ow	ner: Triba	1		Mineral O	wner:	Federal		•	API No	. 30045254	150				
				LOCA	TIO	N OF REI	LEASE								
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County: S	: San Juan				
K	32	28N	12W	1,520	South		1,770	West							
Latitude 36.61602 Longitude 108.13791															
				NAT	URE	OF REL	EASE								
Type of Rele	ase: none						Release: N/A		Volume F	Recovered: 1	V/A				
		v grade tank –	95 bbl				our of Occurrence	e:	Date and	Hour of Dis	covery	:			
Was Immedia	ate Notice (Yes [No 🛛 Not Re	quired	If YES, To	Whom?								
By Whom?						Date and I-									
Was a Water	course Rea		Yes 🗵	l No		If YES, Vo	lume Impacting t	the Water	course.	P1.000 8871. 1					
If a Wataraa	rea was Im	pacted, Descr								RCVD J					
n a watercoo	iise was iii	ipacieu, Desci	ide rully.							OIL CI DI	MS. ST. E				
the BGT. So Describe Are	il analysis a Affected	resulted in TP	H, BTEX	n Taken.* Samplin and chloride belov cen.* BGT was red during final reclau	w stand	ards. Analysi	s results are attac	hed. iT was sa	ımpled. T						
									,		0.00				
regulations a public health should their or or the enviro	Il operators or the envi operations l nment. In a	are required to a renament. The nave failed to a	o report an acceptand adequately OCD accep	e is true and comp nd/or file certain race of a C-141 report investigate and race of a C-141	elease r ort by the emediat	notifications a ne NMOCD m te contaminat	nd perform correct arked as "Final R on that pose a thr	ctive action deport" do reat to gro	ons for releases not released ound water	eases which ieve the ope r, surface w	may en rator of ater, hu	ndanger f liability ıman health			
A	00	Peace					OIL CON	SERV	<u>ATION</u>	DIVISIO	<u> NC</u>				
Signature:															
							Approved by Environmental Specialist:								
Title: Field E	invironmen	tal Advisor				Approval Da	te:	E	expiration	Date:					
E-mail Addre	ess: peace.j	effrey@bp.co	n			Conditions o	ı 🗆								
Date: Januar	y 21, 2014		Phone	: 505-326-9479											

^{*} Attach Additional Sheets If Necessary

CLIENT: BP	BLAGG ENG P.O. BOX 87, BLG (505)	413	API #: 300 TANK ID (if applicble):	4525450 A							
FIELD REPORT:	(circle one): BGT CONFIRMATION / RI			PAGE#:							
SITE INFORMATION	DATE STARTED:	07/19/13									
QUAD/UNIT: K SEC: 32 TWP:	28N RNG: 12W PM:	NM CNTY: SJ ST:	NM	DATE FINISHED:							
1/4-1/4/FOOTAGE: 1,530'S/1,770'	W NE/SW LEASE TYP		INDIAN	ENVIRONMENTAL							
LEASE #: SF 079346A PROD. FORMATION: DK CONTRACTOR: MBF - D. HAGA SPECIALIST(S): JCB											
REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: 36.61574 X 108.13802 GL ELEV.: 5,650'											
1) 95 BGT (SW/DB)	GPS COORD.: 36.6	31602 X 108.13791		ARING FROM W.H.:	AGI NIGAT						
2)	GPS COORD.;		DISTANCE/BE/	ARING FROM W.H.:							
3)	GPS COORD.:		DISTANCE/BE	ARING FROM W.H.:							
4)	GPS COORD.:		DISTANCE/BE	ARING FROM W.H.:							
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR L	AB USED: HALL			OVM READING						
1) SAMPLE ID: 95_BGT 5 - pt. @ .	2' SAMPLE DATE: 07/19/13	SAMPLE TIME: 1200 LAB ANAL	ysis: 418.1/8	8015B/8021B/30	0.0(CI) (ppm) 4.0						
2) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANAL	YSIS:								
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANAL	YSIS:								
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANAL	YSIS:								
SOIL DESCRIPTION: SOIL TYPE: SAND/SILTY SAND SILT / SILTY CLAY / CLAY / GRAVEL / OTHER SOIL COLOR: DARK YELLOWISH ORANGE COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC											
CONSISTENCY (NON COHESIVE SOILS): LO MOISTURE: DRY (SLIGHTLY MOIST) MOIST / W SAMPLE TYPE: GRAB (COMPOSITE) + I DISCOLORATION/STAINING OBSERVED	ET / SATURATED / SUPER SATURATED OF PTS	DENSITY (COHESIVE CLAYS & HC ODOR DETECTED: YES									
ANY AREAS DISPLAYING WETNESS: YES INC APPARENT EVIDENCE OF A RELEASE O		S NO EYPLANATION:									
ADDITIONAL COMMENTS: GAS WELL R			·								
SOIL IMPACT DIMENSION ESTIMATION DEPTH TO GROUNDWATER: <50' N				TIMATION (Cubic Yar CD TPH CLOSURE STD	,						
SITE SKETCH		PLOT PLAN circle: at	tached O\/M	CALIB. READ. = 100	.3 ppm ps - 0.52						
		-		CALIB. GAS = 100	KF = 0.32						
WOODEN			N TIME		DATE: 07/19/13						
R.W.	$\left(\mathbf{x} \stackrel{\mathbf{X}}{\mathbf{x}} \mathbf{x}\right)$		ı⊨	MISCELL.	NOTES						
			١w	/O: N15763 4							
,	` PBGTL T.B. ~ 2'		P	O#:							
1	B.G.		P	k: ZFEIRK I	OSJS						
			<u>P</u>	J#: X7-0057							
			_	ermit date(s):	06/14/10						
			O ∫Tar	nk OVM = Organic							
P&A				ppm = parts pe BGT Sidewalls Visi							
MARKER ⊕			*	BGT Sidewalls Visi							
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATI	ON DEDBESSION: B & = BELOW CRADE: B = BELO	X - S.I W: TH = TEST HOLE: ~ = APPROX : W:H = WE		BGT Sidewalls Visi							
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEI	OW-GRADE TANK LOCATION; SPD = SAMPLE POIN	T DESIGNATION; R.W. = RETAINING WALL; NA	NOT.	lagnetic declinati	on: 10° E						
APPLICABLE OR NOT AVAILABLE, SW - SINGL TRAVEL NOTES: CALLOUT:	E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTON	N; DB - DOUBLE BOTTOM. ONSITE: 07/19/13									

Analytical Report

Received Date: 7/20/2013 10:20:00 AM

Lab Order 1307938

Date Reported: 7/23/2013

Hall Environmental Analysis Laboratory, Inc.

1307938-001

Lab ID:

CLIENT: Blagg Engineering Client Sample ID: 95 BGT 5-pt @ 2'

Project: **GCU 190E** Collection Date: 7/19/2013 12:00:00 PM Matrix: MEOH (SOIL)

Analyses Result **RL Qual Units DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 7/22/2013 10:14:02 AM 8486 9.9 mg/Kg Surr: DNOP 87.6 63-147 %REC 7/22/2013 10:14:02 AM 8486 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: DAM Gasoline Range Organics (GRO) ND 5.0 mq/Kq 7/22/2013 11:35:22 AM R12092 7/22/2013 11:35:22 AM R12092 Surr: BFB 94.0 80-120 %REC **EPA METHOD 8021B: VOLATILES** Analyst: DAM Benzene ND 0.050 mg/Kg 7/22/2013 11:35:22 AM R12092 Toluene 0.050 7/22/2013 11:35:22 AM R12092 ND mg/Kg Ethylbenzene ND 0.050 7/22/2013 11:35:22 AM R12092 mg/Kg ND Xylenes, Total 0.10 mg/Kg 7/22/2013 11:35:22 AM R12092 Surr: 4-Bromofluorobenzene 97.8 80-120 %REC 7/22/2013 11:35:22 AM R12092 **EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride ND 30 mg/Kg 7/22/2013 12:19:13 PM 8491 **EPA METHOD 418.1: TPH** Analyst: jmb Petroleum Hydrocarbons, TR ND 20 mg/Kg 8510 7/23/2013

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Page 1 of 7 Sample pH greater than 2 for VOA and TOC only
- RLReporting Detection Limit

U	main.	ot-Cu	stody Record	Turn-Around	i ime:	By TUES		# #	23	L	▲■	3 5		#TE)	R.I R	AE	NTA	1.5
Client:	BLAGE	, ENGIN	EERWG INC.	☐ Standard	_}_Rush_	7-23-2013	-	75.9										TO	
	ZP A		۸	Project Name] 🖪	T	4										
BP AMERICA Mailing Address: P.O. Box 87			GCU 190E				www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109												
R	KOOMFL	ELD N	M 87413	Project #:						5-34			Fax			W. C. C.	70		
			2-1199							5, 2,		Ana	lysis	Req	ueš		100		
email or Fax#:			Project Mana	ger:)	(ylر	(Q				(7							
QA/QC I	Package:		☐ Level 4 (Full Validation)		BLAGE		s (8021	(Gas or	型/02			SIMS)	,PO4,S	PCB's			1		
Accred	itation			Sampler: 5	T. BLAGG] [PH	io/	=		Ř	Ş	308					=
□ NEL	AP	☐ Othe	er	On Ice	V .Yes.	ENO RECUESTO		<u>+</u>	RO	8.	8	[3	ر ا	s / 8		3	117		ן בֿ
	(Type)_			Sample Tem	dejature:	//35000	BE	BE.	9) (od 4	g	<u> </u>	Ž	ide	ি ₹	\ <u>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \</u>	4		≿
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	ESHEALAND I.	BTEX + MIBETIMB'S (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRC)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 PCPA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHLORIBE		Air Bubbles (Y or N)
19/2013	1200	SOIL	95 BGT 5-pt e2	402 × 1	COOL	- CO)	×		×	×							X		
il	1225	[]	125' N46E @ 2'	ij	il	-002	×		×								\times		
			:																
			,								_						.		$\bot \downarrow$
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	<u> </u>			<u> </u>			ļ			_	<u> </u>	_					_		+
							-				_	_	-	-		-	_		++
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Date:	Time: 1456	Relinquish Relinquish	1 Blogg	Received by:	daller /	Date Time 719/2013 1456 Date Time		l nark:		BIL Par		SP V:	<u>.</u>	FE	IR	Ш 0 <i>5</i> ,	 J%	L	1
19/13	ロイフ	Cm	mitted to Hall Environmental may be subr	1 Can		07/28/3/020			TAE	۲!	JEI	= =	PEI	4CE					

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307938

23-Jul-13

Client:

Blagg Engineering

Project:

GCU 190E

Sample ID MB-8491

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 8491

PQL

PQL

RunNo: 12115

Prep Date: 7/22/2013

Analysis Date: 7/22/2013

SeqNo: 344616

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg HighLimit

RPDLimit %RPD

Qual

Analyte Chloride

ND 1.5

Sample ID LCS-8491

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: **LCSS** Batch ID: 8491

RunNo: 12115

Prep Date: 7/22/2013

Analysis Date: 7/22/2013

SeqNo: 344617 %REC

Units: mg/Kg

HighLimit %RPD

RPDLimit Qual

Analyte

Result

90

LowLimit

110

Result

SPK value SPK Ref Val

93.4

15.00 14 1.5 0 Chloride

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Analyte detected in the associated Method Blank В

Н Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RLReporting Detection Limit Page 3 of 7

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307938

23-Jul-13

Client:

Blagg Engineering

Project:

GCU 190E

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID: PBS

Batch ID: 8510

PQL

20

RunNo: 12130

Prep Date: 7/23/2013

Analysis Date: 7/23/2013

SeqNo: 344995

Units: mg/Kg

Analyte

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit Qual

Petroleum Hydrocarbons, TR

ND

Sample ID LCS-8510

SampType: LCS

TestCode: EPA Method 418.1: TPH

Client ID: LCSS

Batch ID: 8510

RunNo: 12130

Prep Date: 7/23/2013

Analysis Date: 7/23/2013

SeqNo: 344996

Units: mg/Kg

Analyte

Result **PQL**

SPK value SPK Ref Val

%REC 91.8

LowLimit 80

HighLimit 120 %RPD **RPDLimit**

Qual

Petroleum Hydrocarbons, TR

92 20 100.0

TestCode: EPA Method 418.1; TPH

%RPD

Sample ID LCSD-8510

Client ID: LCSS02

SampType: LCSD

Result

95

Batch ID: 8510 Analysis Date: 7/23/2013 RunNo: 12130

SeqNo: 344997

Units: mg/Kg

RPDLimit

Qual

Analyte Petroleum Hydrocarbons, TR

Prep Date: 7/23/2013

PQL

20

SPK value SPK Ref Val

100.0

%REC 94.6

80

LowLimit

HighLimit 120 %RPD 3.01

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Analyte detected below quantitation limits

RPD outside accepted recovery limits

Value above quantitation range E

RSD is greater than RSDlimit

В Analyte detected in the associated Method Blank

Н ND Not Detected at the Reporting Limit

Р Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Holding times for preparation or analysis exceeded

Page 4 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307938

23-Jul-13

Client:

Blagg Engineering

Project:

GCU 190E

Sample ID LCS-8486 Client ID: LCSS	SampType: LCS Batch ID: 8486			TestCode: EPA Method 8015D: Diesel Range Organics RunNo: 12083							
Prep Date: 7/22/2013	Analysis Da	ate: 7/	22/2013	S	SeqNo: 3	43712	Units: mg/F	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	44	10	50.00	0	88.0	77.1	128				
Surr: DNOP	4.2		5.000		84.9	63	147				
Sample ID MB-8486	SampT	SampType: MBLK			tCode: El	PA Method	8015D: Dies	el Range (Organics		
Client ID: PBS	Batch	Batch ID: 8486			RunNo: 1	2083					
Prep Date: 7/22/2013	Analysis Da	Analysis Date: 7/22/2013			SeqNo: 3	43713	Units: mg/K	ζg			

Diesel Range Organics (DRO)

Result PQL ND

10

SPK value SPK Ref Val

89.5

LowLimit

HighLimit

%RPD

RPDLimit

Surr: DNOP

Analyte

9.0

10.00

%REC

63

147

Qualifiers:

Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit

RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 5 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307938

23-Jul-13

Client:

Blagg Engineering

Project:

GCU 190E

Sample	ID	MB-8464

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

80

Client ID: , PBS

Batch ID: 8464

RunNo: 12092

Prep Date: 7/19/2013

Analysis Date: 7/22/2013

SeqNo: 344247

92.6

Units: %REC

120

Analyte Surr: BFB

930

1000

930

Result

SPK value SPK Ref Val %REC

HighLimit

%RPD **RPDLimit**

Qual

Sample ID LCS-8464

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

%RPD

RunNo: 12092

Client ID: LCSS Batch ID: 8464

120

Prep Date: 7/19/2013

Analysis Date: 7/22/2013

SeqNo: 344248

Units: %REC

Analyte Surr: BFB Result **PQL**

SPK value SPK Ref Val %REC 1000

LowLimit HighLimit 80

RPDLimit

Qual

Sample ID MB-8464

SampType: MBLK Batch ID: R12092

Analysis Date: 7/22/2013

101

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 12092 SeqNo: 344474

Units: mg/Kg

HighLimit

Qual

Analyte Gasoline Range Organics (GRO)

Prep Date: 7/19/2013

PBS

Result PQL ND

SPK value SPK Ref Val %REC LowLimit

%RPD **RPDLimit**

Surr: BFB

Client ID:

5.0

Batch ID: R12092

Analysis Date: 7/22/2013

1000

1000

92.6

80

Qual

Sample ID LCS-8464

Prep Date: 7/19/2013

Client ID: LCSS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range RunNo: 12092

62.6

Units: mg/Kg

120

%REC LowLimit

SeqNo: 344475

HighLimit

%RPD

RPDLimit

Analyte Gasoline Range Organics (GRO)

PQL SPK value SPK Ref Val

110 101

136

Surr: BFB

27 5.0 1000

25.00 1000

80

120

R

- Qualifiers: Value exceeds Maximum Contaminant Level.
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit RPD outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit ND
- Sample pH greater than 2 for VOA and TOC only.
- RLReporting Detection Limit

Page 6 of 7

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307938

23-Jul-13

Client:

Blagg Engineering

Project:

GCU 190E

Sample ID MB-8464	SampType: MBLK Batch ID: 8464 Analysis Date: 7/22/2013			Tes						
Client ID: PBS				F	RunNo: 1	2092				
Prep Date: 7/19/2013				SeqNo: 344510			Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		96.3	80	120			

Sample ID LCS-8464 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 8464 RunNo: 12092 Prep Date: 7/19/2013 Analysis Date: 7/22/2013 SeqNo: 344511 Units: %REC SPK value SPK Ref Val Analyte Result PQL %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

Sample ID MB-8464 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: R12092 RunNo: 12092 Prep Date: 7/19/2013 Analysis Date: 7/22/2013 SeqNo: 344523 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.050 Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND Xylenes, Total 0.10 Surr: 4-Bromofluorobenzene 0.96 1.000 96.3 80 120

Sample ID LCS-8464	SampType: LCS Batch ID: R12092 Analysis Date: 7/22/2013			TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS				F	RunNo: 1	2092					
Prep Date: 7/19/2013				SeqNo: 344524			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.050	1.000	0	101	80	120				
Toluene	1.0	0.050	1.000	0	101	80	120				
Ethylbenzene	1.0	0.050	1.000	0	100	80	120				
Xylenes, Total	3.0	0.10	3.000	0	102	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 7 of 7



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: 1307938 RoptNo: 1 Received by/date: Logged By: Michelle Garcia 7/20/2013 10:20:00 AM 7/22/2013 8:26:19 AM Completed By: Michelle Garcia Reviewed By: Chain of Custody Yes 🗌 No 🔲 Not Present 🗹 1 Custody seals intact on sample bottles? Yes 🗸 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In Yes 🔽 No 🔲 NA 🗆 4. Was an attempt made to cool the samples? NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗆 6. Sample(s) in proper container(s)? Yes 🗸 No 🗌 Yes 🔽 No . 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? Yes 🗌 No 🔽 NA 🗆 9. Was preservative added to bottles? No VOA Vials 🗹 No 🗌 10. VOA vials have zero headspace? Yes No 🗹 11. Were any sample containers received broken? # of preserved bottles checked 12. Does paperwork match bottle labels? Yes 🔽 No 🗌 for pH: (<2 or >12 untess noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? V No 🗌 Yes 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 🗹 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: 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 Yes 1.3



