District I 1625 N. French Dr., Hobbs, NM 88240 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 Relow Grade Tonk or

Fit, Delow-Grade Tank, or	*
Proposed Alternative Method Permit or Closure Plan Application	
Type of action: Below grade tank registration	OIL CONS. DIV DIST. 3
45-33486 Permit of a pit or proposed alternative method  Closure of a pit, below-grade tank, or proposed alternative method	APR 17 2015
Closure plan only submitted for an existing permitted or non-permitted or proposed alternative method	pit, below-grade tank,
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alt	tornativo roanost
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface.	•
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental author	rity's rules, regulations or ordinances.
1.  O DR Amorico Production Company.  OCRED # 779	
Operator: BP America Production Company OGRID #:778	
Address:200 Energy Court, Farmington, NM 87401	
Facility or well name:Ealum Gas Com 1M	
API Number:3004533486OCD Permit Number:	
U/L or Qtr/QtrGSection33 Township32N Range10W County:Sat	n Juan
Center of Proposed Design: Latitude36.94352 Longitude107.886055 N	JAD: □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 Drill	-
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	
String-Reinforced	
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L	x Wx D
3.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank A	
Volume:95.0bbl 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 bottomed; side wa	ılls not visible
Liner type: Thicknessmil	
4.	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office	e for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify	hospital,
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC  12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  Signed in compliance with 19.15.16.8 NMAC	
Variances and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptate are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.  -   NM Office of the State Engineer - iWATERS database search;   USGS;   Data obtained from nearby wells	Yes No
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	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. ( <b>Does not apply to below grade tanks</b> )  - 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
<ul> <li>application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
Within 100 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ 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 Natructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the docattached.  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 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 Previously Approved Design (attach copy of design) API Number:  or Permit Number:	NMAC 15.17.9 NMAC
11.	
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 dot 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 and 19.15.17.13 NMAC  Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Previously Approved Design (attach copy of design) API Number:	

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 ☐ Cile Waste Stream Characterization ☐ Monitoring and Inspection Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
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  Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
14.  Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be	attacked 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 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	
15.	
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 ☐ NA
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	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	
Society; Topographic map  Within a 100-year floodplain.	Yes No
- FEMÁ map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
17.  Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and beli	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	<del></del>
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)  OCD Representative Signature: Approval Date: 4/23  Title: OCD Permit Number:	12015
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date:3/14/2012	the closure report. complete this
Closure Method:  ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-lo ☐ If different from approved plan, please explain.	op systems only)
21.  Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please incomark in the box, that the documents are attached.  □ Proof of Closure Notice (surface owner and division) □ Proof of Deed Notice (required for on-site closure for private land only) □ Plot Plan (for on-site closures and temporary pits) □ Confirmation Sampling Analytical Results (if applicable) □ Waste Material Sampling Analytical Results (required for on-site closure) □ Disposal Facility Name and Permit Number □ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique □ Site Reclamation (Photo Documentation)	dicate, by a check

Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure rep belief. I also certify that the closure complies with all applicable closure requireme	
·-	Title: Field Environmental Coordinator
Signature: Signature:	Date:April 16, 2015
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

#### Ealum Gas Com 1M API No. 3004533486 Unit Letter G, Section 33, T32N, R10W

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 BGT notice requirements at that time.
- 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 BGT notice requirements at that time.
- 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.

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

Constituents	Testing Method	Release Verification	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	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	16

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 and is still within the active well area.

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 over the BGT is covered by the LPT and is still within the active well area. This area will be reclaimed when the well is plugged and abandoned 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 over the BGT is covered by the LPT and is still within the active well area. This area will be reclaimed when the well is plugged and abandoned 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 over the BGT is covered by the LPT and is still within the active well area. This area will be reclaimed when the well is plugged and abandoned 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 when the well is plugged and abandoned 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
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

Revised August 8, 2011

mit 1 Copy to appropriate District Office in

Form C-141

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.

			Relea	ase Notifi	catio	n and Co	orrective A	ction			
				,		OPERA'	ГOR		nitial Repor	t 🕅	Final Repor
Name of Co	ompany: B	P			1	Contact: Jet					
,		- Court, Farmir	ngton, NN	1 87401			No.: 505-326-94	179	_		
		Gas Com 1N		***************************************			e: Natural gas v		_		
Surface Ow	ner: Feder	 al		Mineral	Owner:	Federal		API	No. 30045	33486	
		-				N OF RE	FASE	<b>'</b>		-	
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/West Li	ne County	: San Jua	n
G	33	32N	~	1,890	North		2,260	East	- County		
		Latit	ude 36.9	94352		Longitude	107.886055				
		2							_		
Type of Rele	ace, none			NA	LUKE	Volume of	Release: N/A	Volum	ne Recovere	d. NI/A	·
		w grade tank –	95 bbl				Hour of Occurrence		and Hour of		· · · · · · · · · · · · · · · · · · ·
Was Immedi						If YES, To		. Bute	and modified	D1300 (01 )	<u>, ,                                    </u>
			Yes $\square$	No 🛛 Not F	Required						
By Whom?						Date and F	Iour		=	<del></del>	
Was a Water	course Read					If YES, Vo	olume Impacting t	the Watercours	2.		
			Yes 🛚	No							
If a Watercou	ırse was Im	pacted, Describ	be Fully.*								
Describe Cou	ice of Probl	am and Damad	lial Action	Takan * Camp	ling of th	ha coil banaatk	the BGT was do	ne during remo	vol to ansura	no soil ir	magata from
							is results are attac		vai to clisure	110 5011 11	npacts nom
			., 21211		o m buine	, a					
Dagariha Ana	A ffeeted	and Classia A	ation Toles	- * DCT		and the energy	nderneath the BG	T was sampled	The error	ndau tha T	OCT was
		and Cleanup A d and is still wi			emovea	and the area u	nderneath the BG	or was sampled	. The area u	nder the E	3G1 was
backinica un	a compacie	d and is suit wi	iumi ine ac	tive wen area.							
							<del> </del>				
							knowledge and u				
							arked as "Final R				
							on that pose a thr				
or the enviro	nment. In a	ddition, NMO	CD accepta				e the operator of				
federal, state	, or local la	ws and/or regul	lations.						-		
· .	1	0					<u>OIL CON</u>	SERVATIO	<u>)N DIVIS</u>	<u>SION</u>	
Signature:	off 1	soul									
Signature.	* TU					Approved by	Environmental S	necialist:			
Printed Nam	e: Jeff Peac	e				- rpproved by	Zirrioniniontai 5				
Title: Field F	Environmen	tal Coordinator				Approval Da	te:	Exnirat	ion Date:		
Title. Field L	ALT IL OHIHOH	ai Coordinator	•			Approvar Da		DAPITAL	on Date.		
E-mail Addr	ess: peace.j	effrey@bp.com	1			Conditions o	f Approval:		Attacl	ned [	
Date: April	16, 2015		Phone: 50.	5-326-9479							

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

CLIENT: BP	P.O. BOX 87, BLC	GINEERING, INC. DOMFIELD, NM 87 632-1199	413	API #: 30045  TANK ID (if applicble):	533486 A
FIELD REPORT:	(circle one): BGT CONFIRMATION / RE			PAGE #:	
SITE INFORMATION	I: SITE NAME: EALUM G	C #1M		DATE STARTED: (	3/01/12
QUAD/UNIT: G SEC: 33 TWP:	32N RNG: 10W PM:	NM CNTY: SJ s	<u>г: NM</u>	DATE FINISHED:	
1/4-1/4/FOOTAGE: 1,890'N / 2,26	60'E SW/NE LEASE TYPE	FEDERAL/STATE/FEE	/ INDIAN	ENVIRONMENTAL	
LEASE # SF078604A	PROD. FORMATION: MV CONT	RACTOR: MBF - C. ZE	LLITTI	SPECIALIST(S):	JCB
REFERENCE POINT	- WELL HEAD (W.H.) GPS CO	ORD.: 36.94385 X	107.88594	GL ELEV.:	5.986'
1) 95 BGT (DW/DB)	GPS COORD.: 36.94	4349 X 107.88608	_ DISTANCE/BE/		29', S17W
2)	GPS COORD.:		_ DISTANCE/BE/	ARING FROM W.H.:	
3)	GPS COORD.:	***************************************	DISTANCE/BE/	ARING FROM W.H.:	
4)	GPS COORD.:		_ DISTANCE/BEA	ARING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LA	AB USED: HALL			OVM READING
1) SAMPLE ID: <b>95 BGT 5-pt.</b> @	5' SAMPLE DATE: 03/01/12	SAMPLETIME: 1115 LAB ANA	ALYSIS: 418.1/8	015B/8021/B/300.0	(CI) (ppm) 0.0
2) SAMPLE ID:					
3) SAMPLE ID:					
4) SAMPLE ID:					
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAI	ND/SILT/SILTYCLAY/CLAY/	GRAVEL TOTAL	HERT CORRIES	
SOIL COLOR: DARK YELL			0.0 WLE 1011	COBBLES	
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY		PLASTICITY (CLAYS): NON PLASTIC / S	SLIGHTLY PLASTIC / C	OHESIVE / MEDIUM PLASTIC / HI	GHLY PLASTIC
CONSISTENCY (NON COHESIVE SOILS): LC		DENSITY (COHESIVE CLAYS			
MOISTURE: DRY <u>SLIGHTLY MOIST</u> MOIST / WI SAMPLE TYPE: GRAB (COMPOSITE) # OF PTS.		HC ODOR DETECTED: YE	S NO EXPL	ANATION	
DISCOLORATION/STAINING OBSERVED					
ANY AREAS DISPLAYING WETNESS: YES (NO ADDITIONAL COMMENTS: NO APPARE		DVED EDOM BOT I OW DDO	FII F A DOVE	CDADE TANK TO DE C	NET ATOD
BGT LOCATION.	INT EVIDENCE OF A RELEASE OBSE	RVED FROM BG1. LOW PRO	FILE ABOVE	SKADE IANK TO BE S	DET ATOP
				IMATION (Cubic Yards) D TPH CLOSURE STD:	
SITE SKETCH	4	PLOT PLAN circle: a	ttached 0VM	CALIB. READ. = <b>51.0</b>	ppm   RF = 0.52
	TO <i> </i> * W.H. /*		<b>↑</b> OVM	CALIB. GAS =	ppm
			N TIME:	<b>10:00</b> (am)pm DATE:	03/01/12
·			<b>'</b>	MISCELL. N	OTES
			<u>  v</u>	VO - N1407943	
	PBGTL.		<u> </u>	PO - 57279	
	T.B. ~ 5' B.G.		<u>F</u>	PK - ZSCHWLLBO	GT
			] _		
	BERM		-	ownit Data:	00/40/40
	$\left  \left[ \left( \mathbf{x}  \hat{\mathbf{x}}  \mathbf{x} \right)  \right] \right $				06/10/10
FEI	NCE -		Tan		0//10/14
		v		BGT Sidewalls Visible:	Y /(N)/ NA
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAV	ATION DEPRESSION: B.G. = BELOW GRADE: R.=		<u>ן.ע.א.ן · · ·</u>	BGT Sidewalls Visible:	
T.B. = TANK BOTTOM, PBGTL = PREVIOUS	BELOW-GRADE TANK LOCATION; SPD = SAMPLE	POINT DESIGNATION; R.W. = RETAINI	NG WALL; 📗 🔥	agnetic declination:	10° E
NA-NOT APPLICABLE OR NOT AVAILABLE TRAVEL NOTES: CALLOUT:	; SW - SINGLE WALL; DW - DOUBLE WALL; SB - S	SINGLE BOTTOM; DB - DOUBLE BOTTO ONSITE: 03/01/12	IIVI.		_

#### **Analytical Report**

### Lab Order **1203230**

Date Reported: 3/14/2012

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: EALUM GC 1M

1203230-001

Lab ID:

Client Sample ID: 95 BGT 5-pt @ 5'

**Collection Date:** 3/1/2012 11:15:00 AM **Received Date:** 3/7/2012 9:30:00 AM

Result Analyses **RL Qual Units** DF **Date Analyzed EPA METHOD 8015B: DIESEL RANGE ORGANICS** Analyst: JMP Diesel Range Organics (DRO) 10 3/8/2012 12:57:34 PM mg/Kg 1 Surr: DNOP 83.3 77.4-131 %REC 3/8/2012 12:57:34 PM 1 **EPA METHOD 8015B: GASOLINE RANGE** Analyst: RAA 3/8/2012 3:11:14 PM Gasoline Range Organics (GRO) ND 4.9 mg/Kg 1 Surr: BFB 94.1 69.7-121 %REC 3/8/2012 3:11:14 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA ND 0.049 3/8/2012 3:11:14 PM Benzene mg/Kg 1 ND 3/8/2012 3:11:14 PM Toluene 0.049 mg/Kg 1 Ethylbenzene ND 0.049 3/8/2012 3:11:14 PM mg/Kg 1 ND 0.098 3/8/2012 3:11:14 PM Xylenes, Total mg/Kg 1 Surr: 4-Bromofluorobenzene 104 85.3-139 %REC \_1 3/8/2012 3:11:14 PM **EPA METHOD 300.0: ANIONS** Analyst: BRM Chloride 16 15 10 3/8/2012 2:00:12 PM mg/Kg **EPA METHOD 418.1: TPH** Analyst: JMP Petroleum Hydrocarbons, TR 20 3/8/2012 ND mg/Kg 1

Matrix: SOIL

Qualifiers:

- \*/X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery 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
- RL Reporting Detection Limit

Page 1 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1203230

14-Mar-12

Client:

Blagg Engineering

Project:

EALUM GC 1M

Sample ID MB-1010

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 1010

RunNo: 1374

Prep Date: 3/8/2012 Analysis Date: 3/8/2012

SeqNo: 38822

Units: mg/Kg

Analyte

PQL Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**  Qual

Chloride

ND 1.5

Batch ID: 1010

**PQL** 

1.5

Sample ID LCS-1010

SampType: LCS

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID: LCSS

14

RunNo: 1374

Prep Date: 3/8/2012 Analysis Date: 3/8/2012 Result

SeqNo: 38823 %REC

91.1

Units: mg/Kg

HighLimit %RPD **RPDLimit**  Qual

Analyte Chloride

Sample ID 1203245-001AMS

SampType: MS

110

%RPD

3/8/2012

TestCode: EPA Method 300.0: Anions

Client ID: **BatchQC**  Batch ID: 1010

RunNo: 1374

Prep Date: 3/8/2012 Analysis Date: 3/8/2012

SeqNo: 38825

Units: mg/Kg

Analyte Chloride

Result 15 PQL

7.5

7.5

SPK value SPK Ref Val %REC 2.604

SPK value SPK Ref Val

15.00

15.00

15.00

LowLimit 81.6

HighLimit

118

**RPDLimit** 

Qual

Sample ID 1203245-001AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

Client ID: **BatchQC**  Batch ID: 1010

RunNo: 1374

Prep Date:

Analysis Date: 3/8/2012

SeqNo: 38826

74.6

Units: mg/Kg

**RPDLimit** Qual

Analyte Chloride

Result PQL

15

SPK value SPK Ref Val

2.604

%REC 82.8

LowLimit 74.6 HighLimit 118 %RPD 1.27

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Reporting Detection Limit

Page 2 of 6

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1203230

14-Mar-12

Client:

Blagg Engineering

Project:

EALUM GC 1M

Sample ID MB-991

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID:

**PBS** 

Batch ID: 991

RunNo: 1339

Prep Date: 3/7/2012 Analysis Date: 3/8/2012

Result

SeqNo: 37726

Units: mg/Kg

Qual

Analyte

PQL

20

SPK value SPK Ref Val %REC LowLimit

HighLimit

**RPDLimit** %RPD

Petroleum Hydrocarbons, TR

ND

Sample ID LCS-991

Petroleum Hydrocarbons, TR

SampType: LCS

TestCode: EPA Method 418.1: TPH

Client ID:

LCSS

Batch ID: 991

RunNo: 1339

Prep Date: 3/7/2012

Analyte

Analysis Date: 3/8/2012

Result

110

100.0

100.0

SeqNo: 37727

Units: mg/Kg

SPK value SPK Ref Val %REC 0

LowLimit HighLimit 87.8 115

**RPDLimit** %RPD

Qual

Qual

Sample ID LCSD-991

SampType: LCSD

**PQL** 

20

20

TestCode: EPA Method 418.1: TPH

RunNo: 1339

105

Prep Date: 3/7/2012

Client ID: LCSS02

Batch ID: 991

Analysis Date: 3/8/2012

SeqNo: 37728

Units: mg/Kg

%RPD

0.974

**RPDLimit** 

Analyte Petroleum Hydrocarbons, TR Result PQL

100

SPK value SPK Ref Val

0

%REC LowLimit 104

87.8

HighLimit 115

8.04

Qualifiers:

Value exceeds Maximum Contaminant Level. \*/X

Value above quantitation range E

Analyte detected below quantitation limits J

Analyte detected in the associated Method Blank

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

Reporting Detection Limit

ND

Page 3 of 6

RPD outside accepted recovery limits

## Hall Environmental Analysis Laboratory, Inc.

10

41

4.3

WO#:

1203230 14-Mar-12

Client:

Blagg Engineering

Project:

Surr: DNOP

Diesel Range Organics (DRO)

EALUM GC 1M

Sample ID MB-988 Client ID: PBS	SampType: Mil Batch ID: 98	TestCode: EPA Method 8015B: Diesel Range Organics RunNo: 1342							
Prep Date: 3/7/2012	Analysis Date: 3	8/2012	SeqNo: <b>38057</b>			Units: mg/Kg			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Surr: DNOP	8.5	10.00		84.6	77.4	131			
Sample ID LCS-988	SampType: <b>LC</b>	s	Tes	Code: El	PA Method	8015B: Diese	el Range C	Organics	
Client ID: LCSS	Batch ID: 98	8	F	tunNo: 1	342				
Prep Date: 3/7/2012	Analysis Date: 3	8/2012	S	eqNo: 3	8064	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

82.5

85.5

62.7

77.4

131

50.00

5.000

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits J

R RPD outside accepted recovery limits Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 4 of 6

# Hall Environmental Analysis Laboratory, Inc.

28

960

4.9

24.56

982.3

WO#:

1203230

14-Mar-12

Client:

Blagg Engineering

Project:	EALUM GC 1M									
Sample ID MB-98	6 Samp	Туре: МВ	LK	Tes	tCode: El	PA Method	8015B: Gaso	oline Rang	je	
Client ID: PBS	Bato	h ID: 986	;	F	RunNo: 1	353				
Prep Date: 3/7/20	Analysis	Date: <b>3/8</b>	3/2012	5	SeqNo: 3	8593	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organio	` '	5.0							. <u>-</u>	
Surr: BFB	940		1,000		94.3	69.7	121			
Sample ID LCS-98	Samp	Type: LCS	S	Tes	tCode: <b>E</b> F	PA Method	8015B: Gaso	line Rang	je	
Client ID: LCSS	Bato	th ID: 986	;	F	RunNo: <b>1</b> :	353				
Prep Date: 3/7/20	Analysis	Date: <b>3/8</b>	3/2012	5	SeqNo: 3	8594	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organio	s (GRO) 25	5.0	25.00	0	101	98.5	133			
Surr: BFB	1,000		1,000		101	69.7	121			
Sample ID 120322	9-001AMS Samp	Туре: <b>МЅ</b>		Tes	tCode: EF	PA Method	8015B: Gaso	line Rang	е	
Client ID: Batch0	C Bate	h ID: 986	;	F	RunNo: 14	<b>4</b> 04				
Prep Date: 3/7/20	Analysis	Date: <b>3/1</b>	2/2012	S	SeqNo: 40	0169	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organio	s (GRO) 28	5.0	24.80	0	114	85.4	147			
Surr: BFB	980		992.1		99.1	69.7	121			
Sample ID 120322	9-001AMSD Samp	Type: MS	D	Tes	tCode: <b>EF</b>	PA Method	8015B: Gaso	line Rang	е	
Client ID: Batch0	C Bato	h ID: 986	1	F	RunNo: 14	104				
Prep Date: 3/7/20	12 Analysis	Date: <b>3/1</b>	2/2012	8	SeqNo: 40	0171	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

0

113

98.0

85.4

69.7

147

121

1.76

0

19.2

0

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Gasoline Range Organics (GRO)

Surr: BFB

J Analyte detected below quantitation limits

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

RL Reporting Detection Limit

Page 5 of 6

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1203230

14-Mar-12

Client: Project:

Blagg Engineering EALUM GC 1M

	_										
Sample ID MB-986	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batcl	h ID: 98	6	F	RunNo: 1	353					
Prep Date: 3/7/2012	Analysis D	Date: 3/	8/2012	SeqNo:			Units: mg/l				
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	1.0		1.000		104	85.3	139				
Sample ID LCS-986	SampT	ype: LC	s	TestCode: EPA Method				tiles			
Client ID: LCSS	Batch	h ID: 98	6	RunNo: 1353							

		) F - · ·	•										
Client ID: LCSS	Batch ID: 986			F	RunNo: 1	353							
Prep Date: 3/7/2012	Analysis D	ate: 3/	8/2012	SeqNo: <b>38612</b>			Units: mg/K	g					
Analyte	Result PQL SPK value SPK Ref Val %REC LowLim		LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Benzene	0.93	0.050	1.000	0	93.3	83.3	107						
Toluene	0.95	0.050	1.000	0	95.4	74.3	115						
Ethylbenzene	0.96	0.050	1.000	0	95.7	80.9	122						
Xylenes, Total	2.9	0.10	3.000	0	96.5	85.2	123						
Surr: 4-Bromofluorobenzene	1.1		1.000		109	85.3	139						

Sample ID 1203230-001AM	S Samp	SampType: MS			TestCode: EPA Method 8021B: Volatiles										
Client ID: 95 BGT 5-pt @ 5	i' Batc	h ID: 98	6	F	RunNo: 1										
Prep Date: 3/7/2012	Analysis [	Date: 3/	12/2012	SeqNo: 40186			Units: mg/F	(g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	0.82	0.049	0.9747	0	84.3	67.2	113								
Toluene	0.85	0.049	0.9747	0	87.4	62.1	116								
Ethylbenzene	0.88	0.049	0.9747	0	90.4	67.9	127								
Xylenes, Total	2.7	0.097	2.924	0	90.9	60.6	134								
Surr: 4-Bromofluorobenzene	0.97		0.9747		99.0	85.3	139								

Sample ID 1203230-001AM	SD	TestCode: EPA Method 8021B: Volatiles									
Client ID: 95 BGT 5-pt @ 5	86 RunNo: 1404										
Prep Date: 3/7/2012	Analysis Date: 3/12/2012				SeqNo: <b>4</b>	0187	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit %RPD		RPDLimit	Qual	
Benzene	0.80	0.048	0.9524	0	84.5	67.2	113	2.07	14.3		
Toluene	0.84	0.048	0.9524	0	88.5	62.1	116	1.07	15.9		
Ethylbenzene	0.86	0.048	0.9524	0	90.5	67.9	127	2.16	14.4		
Xylenes, Total	2.6	0.095	2.857	0	91.8	60.6	134	1.41	12.6		
Surr: 4-Bromofluorobenzene	0.95		0.9524		100	85.3	139	0	0		

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

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

RL Reporting Detection Limit

Page 6 of 6



Hall Environmental Analysis Luboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

## Sample Log-In Check List

Work Order Number: 1203230 Client Name: **BLAGG** 03/07/12 Received by/date: 3/7/2012 9:30:00 AM Logged By: Michelle Garcia 3/7/2012 10:27:33 AM Completed By: Michelle Garcia Reviewed By: Chain of Custody 1. Were seals intact? Yes No Not Present ✓ 2. Is Chain of Custody complete? Not Present No 3. How was the sample delivered? FedEx Log In NA No 4. Coolers are present? (see 19. for cooler specific information) 5 Was an attempt made to cool the samples? NA NΑ 6. Were all samples received at a temperature of >0° C to 6.0°C Yes 7. Sample(s) in proper container(s)? No No 8. Sufficient sample volume for indicated test(s)? 9 Are samples (except VOA and ONG) properly preserved? No Nο NA 10 Was preservative added to bottles? Yes No VOA Vials 🗸 No 11. VOA vials have zero headspace? Yes No 12. Were any sample containers received broken? Yes # of preserved No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Adjusted? No 15. Is it clear what analyses were requested? No 16 Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes Νo NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 18 Additional remarks: 19. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date 1.0 Good

Chain-of-Custody Record			Turn-Around Time:				HALL ENVIRONMENTAL														
Client:	Client: BLAGG ENGINEERING INC.			Standard	ANALYSIS LABORATORY																
	BP	AME	RICA	Project Name:  EALUM GC 1M				www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109													
Mailing	Address	PO	RICA . Box 87																		
	BLOOMFIELD, NM 87413			Project #:				Tel. 505-345-3975 Fax 505-345-4107													
			32-1199	1			,													10 mg/4	20 5 2 4 5 F 20 5 4
email o		25 0	<i>30 111</i>	Project Mana	ager:			ly)									e e e		6		
QA/QC Package:			J. E	-		(8021)	s only)	)ies					S,	B's					İ		
✓ Standard □ Level 4 (Full Validation)						18) s.am.	(Gas	(Gas/Diesel)					δ	PCB				1			
Accreditation			Sampler: J. BLAG6				+ MTBE + TPH (Gas		<del>(</del> 1	<del>-</del>	<del>(</del>		Š,	8082			١, ١			9	
			enfice: Dryess sinos SampleDemperatifie: SampleStemperatifie: SampleSte				L + :	015	418.	504	PAF	S	<u>o</u>	_		OA)	(DE			or N	
□ EDD (Type)			Sampleffen	oer <b>ajuj</b> e: "⊭≒ I			TBE	9d 8	po!	bo	or	etal	Z,	cide	₹	ıi-V(	9			\_	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALING.	BTEX + WITHE	BTEX + M	TPH Method 8015B	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	CHORIDE			Air Bubbles (Y
3/1/17	1115	SOIL	95 BGT 5-P6@5	40721	con		X		×	X			_ ==	1	3	3	ω.	X		+	
1/12	VV1 J		, , , , , , , , , , , , , , , , , , ,																	+	+
-																				$\dashv$	+
														<u> </u>						_	+
		<del> </del> -		<u> </u>			ļ				-								$\vdash$	+	+
		<u> </u>					ļ														4
					ļ											<u></u>					丄
																					$\perp$
												_									1
							<u> </u>														╧
		-																			$\Box$
			Received by:		Date Time	Ren	nark	s: ¿	PRO	,	+ D.	RU	0	N 8	301	5					
3/6/12	1155	14	1 / Shy	Mistry !	whaler	3/6/12 1155				194										,	
Date:	Time:	Relinquish	ed by:	Received by: Date Time ZSCHWLL B6T																	
3/6/12	llezi	Vilus	tu Waller -	Muhe	LL Corni	u 03/07/12 093	J	eff	P	eqo	e	-							·		



