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 87505State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505For 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.	ne
Pit, Below-Grade Tank, or         12530       Proposed Alternative Method Permit or Closure Plan Application         Type of action:       Below grade tank registration         45-24184       Permit of a pit or proposed alternative method         Modification to an existing permit/or registration       JAN 07 2015         Modification to an existing permit/or registration       Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method         Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request         Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinance	es.
I.       Operator: BP America Production CompanyOGRID #:778         Address:200 Energy Court, Farmington, NM 87401         Facility or well name:Florance C 8M         API Number:3004524184OCD Permit Number:         U/L or Qtr/QtrE Section19 Township28N Range _8W County:San Juan         Center of Proposed Design: Latitude36.64993 Longitude107.72784 NAD:11927 ⊠ 1983         Surface Owner: ⊠ Federal □ State □ Private □ Tribal Trust or Indian Allotment	
2.     2.	
3.       Selow-grade tank:       Subsection I of 19.15.17.11 NMAC       Tank A         Volume:95.0bbl       Type of fluid:Produced water         Tank Construction material:Steel	

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

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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

**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.

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 acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting						
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	□ Yes □ No □ NA					
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						
<ul> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>						
<ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	🗌 Yes 🗌 No					
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>						
<ul> <li>Within a 100-year floodplain. (Does not apply to below grade tanks)</li> <li>FEMA map</li> </ul>						
Below Grade Tanks						
<ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No					
<ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No					
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)						
<ul> <li>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.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No					

Within 300 feet from a occupied 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 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							
<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>							
Temporary Pit Non-low chloride drilling fluid							
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>							
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	Yes No						
<ul> <li>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;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No						
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No						
Permanent Pit or Multi-Well Fluid Management Pit							
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>							
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>							
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							
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>							
10. <b>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist:</b> Subsection B of 19.15.17.9 N <i>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.</i> <ul> <li>Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> <li>Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>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</li> <li>Previously Approved Design (attach copy of design) API Number: or Permit Number:</li> </ul>	cuments are 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: or Permit Number: or Permit Number:							

12.         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 attached.         Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Climatological Factors Assessment         Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC         Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan         Emergency Response Plan         Oil Field Waste Stream Characterization         Monitoring and Inspection Plan         Erosion Control Plan         Closure Plan - based upon the appropriate requirements of 19.15.17.9 NMAC and 19.15.17.13 NMAC	documents are
13.         Proposed Closure:       19.15.17.13 NMAC         Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.         Type:       Drilling         Workover       Emergency         Cavitation       P&A         Permanent Pit       Below-grade Tank         Multi-well F         Alternative         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
<ul> <li><sup>14.</sup></li> <li><u>Waste Excavation and Removal Closure Plan Checklist</u>: (19.15.17.13 NMAC) <i>Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached.</i> <ul> <li>Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul> </li> </ul>	attached to the
<sup>15.</sup> 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. F 19.15.17.10 NMAC for guidance.	
<ul> <li>Ground water is less than 25 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> <li>Ground water is between 25-50 feet below the bottom of the buried waste</li> </ul>	□ Yes □ No □ NA □ Yes □ No
- 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.	□ NA □ Yes □ No
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	□ NA □ Yes □ No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	🗌 Yes 🗌 No
<ul> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> </ul>	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	

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<ul> <li>adopted pursuant to NMSA 1978, Section 3-27-3, as amended.</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	
	🗌 Yes 🗌 No
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	Yes No
Within an unstable area.	
<ul> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	Yes No
Within a 100-year floodplain. - FEMA map	Yes No
16.	
On-Site Closure Plan Checklist:       (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure play 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 19.15.17.13 NMAC         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         Site Reclamation 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	
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
e-mail address: Telephone: 18. OCD Approval:  Permit Application (including closure plan)  Closure Plan (only)  OCD Conditions (see attachment)	
e-mail address: Telephone:	
e-mail address: Telephone:	the closure report.
e-mail address: Telephone: 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:/29 Title: OCD Permit Number: 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	the closure report.
e-mail address: Telephone:	the closure report.

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#### **Operator Closure Certification:**

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\* 22.

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
Signature:	Af Pears

Title: Field Environmental Coordinator

	Date:	January	6	2015
_	Date.	_ sundary	0,	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

### Florance C 8M API No. 3004524184 Unit Letter E, Section 19, T28N, R8W

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

#### **General Closure Plan**

- BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement. 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 BCT potice requirements at

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.

- BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.
   All equipment associated with the BCT has been removed.
  - 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	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.

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

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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.

OPERATOR       Initial Report       Similar Report       Similar Report       OPERATOR       Initial Report       Similar Report       API No 3004524184       Similar Report       API No 3004524184         Latitude 36.64993       Longitude 107.72784       Colspan Report	220 S. St. Fran	icis Dr., Santa	a Fe, NM 8750	5	S	anta Fe	e, NM 875	505				
Name of Company: BP       Contact: Jeff Peace         Address: 200 Energy Court, Farmington, NM 87401       Telephone No.: 505-326-9479         Facility Name: Iorance C 8M       Facility Type: Natural gas well         Surface Owner: Federal       Mineral Owner: Federal       AP1 No. 3004524184         LOCATION OF RELEASE         Unit Letter       Section       Township       Range       Feet from the North       North/Subth Line       Feet from the 970       County: San Juan         Latitude_36.64993       Longitude 107.72784         Volume of Release: NA       Volume Recovered: N/A         Source of Release: none       Volume of Release: NA       Volume Recovered: N/A         Source of Release: below grade tank – 95 bbl       Date and Hour of Occurrence:       Date and Hour of Discovery:         Was a Matercourse Reached?       Yes No       If YES, Volume Impacting the Watercourse.         Was a Watercourse was Impacted, Describe Fully.*       Date and Hour       If YES, Volume Impacting the Watercourse.         Describe Area Affected and Cleamup Action Taken.* Sampling of the soil beneath the BGT was sampled. The area under the BGT was sampled and is still within the active well area.         Describe Area				Rele	ease Notifi	cation	n and Co	orrective A	ction			
Name of Company: BP       Contact: Jeff Peace         Address: 200 Energy Court, Farmington, NM 87401       Telephone No.: 505-326-94799         Facility Xame: Florance C 8M       Facility Type: Natural gas well         Surface Owner: Federal       Mineral Owner: Federal       API No. 3004524184         LOCATION OF RELEASE         Unit Letter       Section       Township       Range       Feet from the       Feet from the       Longitude							<b>OPERA</b> '	ГOR	🗌 Ini	tial Report	Final Repor	
Facility Name: Florance C 8M       Facility Type: Natural gas well         Surface Owner: Federal       Mineral Owner: Federal       API No. 3004524184         LOCATION OF RELEASE         Unit Letter       19       ZeN       Range       Feet from the 1,545       NorthSouth Line NorthSouth Line 1,545       Feet from the NorthSouth Line 1,545       County: San Juan         Location of Release: North       County: San Juan         Natural gas well         Location of Release: North       County: San Juan         NorthWest Line Prope of Release: North       County: San Juan         Surface Owner: Federal         Natural gas well         Longitude_107.72784         Type of Release: North       Volume Recovered: N/A         Source of Release: North       Volume Recovered: N/A         Source of Release: North       Volume Recovered: N/A         Volume of Release: N/A       Volume Recovered: N/A         Worth OF RELEASE         Volume Recovered: N/A         Volume Recovered: N/A         Source of Release: below grade tank -95 bbl       Date and Hour         Was a Watercourse was Impacted, Describe Fully.* <td colspa<="" td=""><td>Name of Co</td><td>ompany: B</td><td>Р</td><td></td><td></td><td></td><td>Contact: Jet</td><td>f Peace</td><td></td><td>1</td><td>1</td></td>	<td>Name of Co</td> <td>ompany: B</td> <td>Р</td> <td></td> <td></td> <td></td> <td>Contact: Jet</td> <td>f Peace</td> <td></td> <td>1</td> <td>1</td>	Name of Co	ompany: B	Р				Contact: Jet	f Peace		1	1
Facility Name: Florance C 8M       Facility Type: Natural gas well         Surface Owner: Federal       Mineral Owner: Federal       API No. 3004524184         LOCATION OF RELEASE       LOCATION OF RELEASE         Unit Letter       19       28N       Range       Feet from the 1,545       North/South Line North       Feet from the Yourge of Release: N/A       County: San Juan         Via Counce of Release: none       NorthWeet Correct:       Date and Hour of Occurrence:       Date and Hour of Discovery:         Was Immediate Notice Given?       Yes       No       Not Required       Date and Hour         Was a Watercourse Reached?       Yes       No       Date and Hour       Date and Hour         Was a Watercourse was Impacted, Describe Fully.*       Describe Fully.*       Describe Fully.*       Describe Fully.*         Describe Area Affected and clearn Action Taken.* BGT was removed and the area underneath the BGT was sampled. The area under the BGT was backfilled and compacted and is still within the active well area.       Intereduce of realese which may endinger provide of Teleases which may endinger provide of Teleases which may endinger proved to the oryroomscent. The acceptance of a C-141 report does not relieve the operator of responsibility for compliance which may endinger public health on KonXOCD release of C-141 report does not relieve the operator of responsibility for compliance which may endinger public health on KonXOCD release of C-141 report does not relieve the operator of responsibility for compliance which may endinger public he				ington, N	M 87401		Telephone 1	No.: 505-326-94	79			
LOCATION OF RELEASE         Unit Letter       Section       Township       Range       Feet from the       North       North       Feet from the       County: San Juan         Latitude_36.64993       Longitude_107.72784       County: San Juan         Mature of Release: none       NatURE OF RELEASE       Volume of Release: N/A       Volume Recovered: N/A         Source of Release: below grade tank – 95 bbl       In Morth Source of County: San Juan       Date and Hour of Occurrence:       Date and Hour of Discovery:         Was Immediate Notice Given?       Yes       No       No R Recurrence:       Date and Hour of Discovery:       If Yes, To Whom?         Was a Watercourse Reached?       Yes       No       No R Not Required       Date and Hour       If YES, To Whom?         Bescribe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. Soil analysis resulted in TPH, BTEX and chloride below standards. Analysis results are attached.         Describe Area Affected and Cleanup Action Taken.* BGT was removed and the area underneath the BGT was sampled. The area under the BGT was backfilled and compacted and is still within the active well area.         I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for relea												
LOCATION OF RELEASE         Unit Letter       Section       Township       Range       Feet from the       North       Feet from the       East/West Line       County: San Juan         Latitude_36.64993       Longitude_107.72784       Feet from the       North       Volume of Release: NOR       Volume Recovered: N/A         Source of Release: none       Volume of Release: N/A       Volume Recovered: N/A       Date and Hour of Occurrence:       Date and Hour of Discovery:         Was Immediate Notice Given?       Yes       No       No required       Press, To Whom?       Date and Hour of Discovery:       If Yes, Yo Whom?         Was a Watercourse Reached?       Yes       No       No required       Date and Hour       Bate and Hour         Was a Watercourse was Impacted, Describe Fully.*       Date and Hour       Bate and Hour       Bate and Hour       Bate and Hour         Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. Soil analysis resulted in TPH, BTEX and chloride below standards. Analysis results are attached.         Describe Area Affected and Cleanup Action Taken.* BGT was removed and the area underneath the BGT was sampled. The area under the BGT was backfilled and compacted and is still within the active well area.         I hereby certify that the information given above is true and complete to the best of my knowledge and understand that purs	Surface Ow	ner: Feder	al		Mineral (	Juner.	Federal		ADIN	0 3004524	184	
Unit Letter       Section       Township       Range       Feet from the low orth       North       Feet from the 970       East/West Line       County: San Juan         Latitude_38.64993       Longitude_107.72784	Surface Ow	ner. i eder	aı						ATTN	0. 3004324	104	
E       19       28N       8W*       1,545       North       970       West         Latitude_36.64993       Longitude_107.72784         NATURE OF RELEASE         Type of Release: none       Volume of Release: NA       Volume Recovered: N/A         Source of Release: below grade tank – 95 bbl       Date and Hour of Occurrence:       Date and Hour of Discovery:         Was Immediate Notice Given?       Yes       No       Not Required       If YES, To Whom?         By Whom?       Date and Hour       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         By Whon?       Yes       No       If YES, Volume Impacting the Watercourse.       If a Watercourse was Impacted, Describe Fully.*         Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. Soil analysis resulted in TPH, BTEX and chloride below standards. Analysis results are attached.         Describe Area Affected and Cleanup Action Taken.* BGT was removed and the area underneath the BGT was sampled. The area under the BGT was backfilled and compacted and is still within the active well area.         I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations and perform corrective actions for releases which may endanger public health or the environment. The accep		~ .		-							3	
NATURE OF RELEASE         Type of Release: none       Volume of Release: N/A       Volume Recovered: N/A         Source of Release: below grade tank – 95 bbl       Date and Hour of Occurrence:       Date and Hour of Discovery:         Was Immediate Notice Given?       If YES, To Whom?       If YES, To Whom?         By Whom?       Date and Hour       If YES, Volume Impacting the Watercourse.         By Whom?       Date and Hour       If YES, Volume Impacting the Watercourse.         If a Watercourse Reached?       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. Soil analysis resulted in TPH, BTEX and chloride below standards. Analysis results are attached.         Describe Area Affected and Cleanup Action Taken.* BGT was removed and the area underneath the BGT was sampled. The area under the BGT was backfilled and compacted and is still within the active well area.         I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability of the orther to ground water, surface water, human havind or regulations.         Signature: <td></td> <td></td> <td>*</td> <td></td> <td></td> <td></td> <td>South Line</td> <td></td> <td></td> <td>County: S</td> <td>an Juan</td>			*				South Line			County: S	an Juan	
Type of Release: none       Volume of Release: N/A       Volume Recovered: N/A         Source of Release: below grade tank – 95 bbl       Date and Hour of Occurrence:       Date and Hour of Discovery:         Was Immediate Notice Given?       If YES, To Whom?       If YES, To Whom?         By Whom?       Date and Hour       Date and Hour         Was a Watercourse Reached?       If YES, Volume Impacting the Watercourse.       If YES, Volume Impacting the Watercourse.         If a Watercourse was Impacted, Describe Fully.*       Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. Soil analysis resulted in TPH, BTEX and chloride below standards. Analysis results are attached.         Describe Area Affected and Cleanup Action Taken.* BGT was removed and the area underneath the BGT was sampled. The area under the BGT was backfilled and compacted and is still within the active well area.         I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report whe NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for complian			Lat	itude_3	6.64993		Longitud	e_107.72784_				
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Signature:     Signature:     Approved by Environmental Specialist:	I hereby certi regulations al public health should their c or the enviror	fy that the in l operators a or the envir perations ha ment. In ac	nformation gi are required to onment. The ave failed to a ddition, NMC	ven above o report an acceptanc idequately OCD accep	is true and comp d/or file certain r e of a C-141 repo investigate and r	elease no ort by the emediate	otifications and NMOCD mage contaminati	nd perform correct arked as "Final Re on that pose a thre	tive actions for re eport" does not re eat to ground wat	leases which lieve the oper er, surface wa	may endanger rator of liability ater, human health	
Printed Name: Jeff Peace Approved by Environmental Specialist:	Signature:	Jaff	leve					OIL CONS	SERVATION	DIVISIO	DN	
Title: Field Environmental Coordinator Approval Date: Expiration Date:	0.				1	Approved by	Environmental Sp	becialist:				
	Title: Field E	nvironmenta	al Coordinato	r		1	Approval Dat	e:	Expiration	Date:		
E-mail Address: peace.jeffrey@bp.com Conditions of Approval: Attached	E-mail Addre	ss: peace.je	ffrey@bp.com	n		(	Conditions of	Approval:		Attached		
Date: January 6, 2015 Phone: 505-326-9479			1031		505-326-9479							

\* Attach Additional Sheets If Necessary

(505) 632-1199         (TANK ID)           (dide one):         (EDECONFIRMATION):         PAGE #:         1         of Tank ID):           STEE INFORMATION:         STEE NAME FLORANCE C # 8M           DATE STATE ON STATE ON SWIP MAN INCTY:         STEE INFORMATION:         STEE NAME FLORANCE C # 8M           OLIVE INFORMATION:         STEE NAME FLORANCE C # 8M           DATE STATE ON SWIP MAN INCTY:         STEE INFORMATION:         STEE NAME           LANK ID OF ORMATION:         STEE NAME FLORANCE C # 8M           DATE STATE / FEE / INDIAN           LARE STATE / FEE / INDIAN           LARE STATE / FEE / INDIAN           DATE STATE / FEE / INDIAN           LEAR MAN INT CATLE / FEE / INDIAN           LARE STATE / FEE / INDIAN           DET STAT			INEERING, INC.	API#: 3004524184	
FIELD KEPUK I:       PAGE #					
QUADUNITE E SEC 19 TWP: 28N RNG: 8W PM: NM CNTY: SJ ST. NM       Date FINISHED         1/4-1/4/FOOTAGE: 1,545'N / 970'W       SW/NW LEASE TYPE: FEDERAL STATE / FEE / INDAN         1/4-1/4/FOOTAGE: 1,545'N / 970'W       SW/NW LEASE TYPE: FEDERAL STATE / FEE / INDAN         1/4-1/4/FOOTAGE: 1,545'N / 970'W       SW/NW LEASE TYPE: FEDERAL STATE / FEE / INDAN         1/4-1/4/FOOTAGE: 1,545'N / 970'W       SW/NW LEASE TYPE: FEDERAL STATE / FEE / INDAN         1/2-200       OPS COORD:       36.64937 X 107.72784         1/1       95 BGT (SW/DB)       GPS COORD:       DISTACEBEARING FROM WH:         2/2       GPS COORD:       DISTACEBEARING FROM WH:       GPS COORD:         3/2       GPS COORD:       DISTACEBEARING FROM WH:       GPS COORD:         2/2       GPS COORD:       DISTACEBEARING FROM WH:       GPS COORD:         2/3       GPS COORD:       DISTACEBEARING FROM WH:       GPS COORD:         2/3       SAMPLEID       SWEEDRE       HALL       REAVISE         3/3       GPS ECORD:       DISTACEBEARING FROM WH:       GPS COORD:       DISTACEBEARING FROM WH:       GPS COORD:         2/3       SAMPLEID       SUBTERDE:       DISTACEBEARING FROM WH:       GPS COORD:       DISTACEBEARING FROM WH:       GPS COORD:         2/3       SAMPLEID       SSUBTERDE:       SUBTERDE:	FIELD REPORT:	(circle one): BGT CONFIRMATION / RELE	EASE INVESTIGATION / OTHER:	PAGE #: <u>1</u> of <u>1</u>	
1/4 -1/4/FOOTAGE:       1,545'N / 970'W       SW/NW       LEASE #:       INDIAN       EMARCHICAL         LEASE #:       NM03549       PROD. FORMATION:       CHA       CONTRACTOR       ELXHORN       EMARONIENTAL         LEASE #:       NM03549       PROD. FORMATION:       CHA       CONTRACTOR       ELXHORN       EMARONIENTAL         STATE       MBP - Cr. McINESS       GE ELEV:       5,771'         1)       95 BGT (SW/DB)       GPS COORD:       36.64993 X 107.72784       DISTACEBEARING FROM WH:       69', N48W         2)       GPS COORD:       DISTACEBEARING FROM WH:       05', N45W       69', N48W         3)       GPS COORD:       DISTACEBEARING FROM WH:       05', M45W         4)       GPS COORD:       DISTACEBEARING FROM WH:       05', M45W         2)       GPS COORD:       DISTACEBEARING FROM WH:       05', M45W         3)       GPS COORD:       DISTACEBEARING FROM WH:       05', M45W         2)       SAMPLE ID       SAMPLE ID       SAMPLE ID       SAMPLE ID         3)       SAMPLE ID       SAMPLE ID       SAMPLE ID       SAMPLE ID       SAMPLE ID         3)       SAMPLE ID       SAMPLE ID       SAMPLE ID       SAMPLE ID       SAMPLE ID       SAMPLE ID       SAMPLE ID',				DATE STARTED: 05/04/12	
LEASE #         NM03549         PROD. FORMATION:         CHA         CONTRACTOR         ELKHORN         SPECIALIST(s):         JCB           SPECIALIST(s):         JCB           REFERENCE POINT:         Well HEAD (WH) GPS COORD:         36.64993 X 107.72768         GLELEV:         5,771'           1) 95 BGT (SW/DB)         GPS COORD:         36.64993 X 107.72784         DISTACEBERING FROM WH:         69', N48W           2)         GPS COORD:         DISTACEBERING FROM WH:         69', N48W           2)         GPS COORD:         DISTACEBERING FROM WH:         69', N48W           4)         GPS COORD:         DISTACEBERING FROM WH:         69', N48W           4)         GPS COORD:         DISTACEBERING FROM WH:         69', N48W           SAMPLE ID:         GPS COORD:         BISTACEBERING FROM WH:         00'           SAMPLE ID:         SMAREDITE         SMAREDIT         GPS COORD:         0.0           SAMPLE ID:         SMAREDITE         SMAREDITE         UBANAYSE         418.11/8015BJ/8021B/300.0 (CI)         0.0           SOLI DESCRIPTION:         SOLTARE GANDON         SOLTARE GANDONE         BERCOCK SANDSTONE           SOLI DESCRIPTION: <td c<="" td=""><td></td><td></td><td></td><td>DATE FINISHED:</td></td>	<td></td> <td></td> <td></td> <td>DATE FINISHED:</td>				DATE FINISHED:
1)       95 BGT (SW/DB)       GPS COORD:       36.64993 X 107.72784       DISTANCEBEARING FROM WH:       69°, N48W         2)       GPS COORD:       DISTANCEBEARING FROM WH:       69°, N48W         3)       GPS COORD:       DISTANCEBEARING FROM WH:       69°, N48W         4)       GPS COORD:       DISTANCEBEARING FROM WH:       0         5       SAMPLING DATA:       CHAIN OF CUSTODY RECORD(S) # OR LAB USED:       HALL       IDISTANCEBEARING FROM WH:         1) SAMPLE ID:       95 BGT 5-pt. @ 5'       GAME DATE       05/04/12       SAMPLE THE       LBARKYSE         3) SAMPLE ID:       SWREDATE       SWRETTHE       1428       UBARKYSE       000       0.0         4) SAMPLE ID:       SWREDATE       SWRETTHE       UBARKYSE       000       0.0         4) SAMPLE ID:       SWREDATE       SWRETTHE       UBARKYSE       000       0.0         4) SAMPLE ID:       SOIL TYPE:       SOIL TYPE:       SAMPLE THE       UBARKYSE       000       0.0         SOIL COLOR       DARK YELLOWISH ORANGE       OONESTIME (DISTINGT CARY FUNCTIONESTIME (DISTINGT CARY FUNCTIONESTIC)       000       0.0       0.0         SOIL COLOR       DARK YELLOWISH ORANGE       EARDY TOHESTIME (DISTINGT CARY FUNCTIONESTIC)       0.0       0.0       0.0	,		EL KHORN		
2) GPS COORD.: DISTANCEBEARING FROM WH: 3) GPS COORD.: DISTANCEBEARING FROM WH: 4) GPS COORD.: DISTANCEBEARING FROM WH: 5SAMPLEID: STANCEBEARING FROM WH: 9 SAMPLEID: STANCEDEARING FROM WH: 1) SAMPLEID: STANCEDEARING FROM WH: 9 SAMPLEID: SWREDATE SWRETTME L428 URAWLYSS 418.1/8015B/8021B/300.0 (CI) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	REFERENCE POINT	WELL HEAD (W.H.) GPS COO	RD.: 36.64975 X 107.72768	GL ELEV.: 5,771'	
a)	1) 95 BGT (SW/DB)	GPS COORD.: 36.64	993 X 107.72784 DISTANCE/BE	EARING FROM W.H.: 69', N48W	
4)       GPS COORD.:       DISTANCEREARING FROM WH:         SAMPLING DATA:       CHAIN OF CUSTODY RECORD(S) # OR LAB USED:       HALL       RCMM (BUIL)         1) SAMPLE ID:       95 BGT 5-pt. @ 5'       SWREDATE:       05/04/12       SWRETIME       1428       US ANVESS       418.1/8015B/8021B/300.0 (CI       0.0         2) SAMPLE ID:       SWREDATE:       SWRETIME:       US ANVESS       US ANVESS       0.0         3) SAMPLE ID:       SWREDATE:       SWRETIME:       US ANVESS       0.0         4) SAMPLE ID:       SULTYPE: SAND / SILTY SAND       SILT / SIL	2)	GPS COORD.:	DISTANCE/B	EARING FROM W.H.:	
SAMPLING DATA:       CHAIN OF CUSTODY RECORD(S) # OR LAB USED:       HALL       Order         1) SAMPLE ID:       95 BGT 5-pt. @ 5'       SMPLE DATE       05/04/12       SMPLE TIME       1428       UBAWLYSS       418.1/8015B/8021B/300.0 (C)       0.0         2) SAMPLE ID:       SMPLE DATE       SMPLE TIME       UBAWLYSS       UBAWLYSS       0.0         3) SAMPLE ID:       SMPLE DATE       SMPLE TIME       UBAWLYSS       0.0         3) SAMPLE ID:       SMPLE DATE       SMPLE TIME       UBAWLYSS       0.0         3) SAMPLE ID:       SMPLE TIME       UBAWLYSS       0.0       0.0         3) SAMPLE ID:       SMPLE TIME       UBAWLYSS       0.0       0.0         3) SAMPLE ID:       SMPLE TIME       UBAWLYSS       0.0       0.0       0.0         3) SAMPLE ID:       SMPLE TIME       UBAWLYSS       0.0       0.0       0.0       0.0         SOIL COLOR:       DARK YELLOWISH ORANGE       SMPLE TYPE: [SAND / SUIGHTY WARDY MOST WET / SATURATED / SUPER SATURATED       DENSITY (CLARY; MON PLASTIC / SUGHTY MARDY SUPER SATURATED / SUPER SATURATE	3)	GPS COORD.:	DISTANCE/B	EARING FROM W.H.:	
SAMPLING DATA:       CHAN OF CUSTODY RECORD(S) # OR LAB USED:       HALL       Image: Content of Customer C	4)				
1) SAMPLE ID:       95 BGT 5-pt. @ 5'       SMAREDRE       05/04/12       SMAREDRE       1428       UBANUSS:       418,1/8015B/8021B/300.0 (CI)       0.0         2) SAMPLE ID:       SMAREDRE       SMAREDRE       UBANUSS:       UBANUSS:       108,4019S:         3) SAMPLE ID:       SMAREDRE       SMAREDRE       UBANUSS:       108,4019S:       108,4019S:         4) SAMPLE ID:       SMAREDRE       SMAREDRE       UBANUSS:       108,4019S:       108,4019S:         SOIL DESCRIPTION:       SOIL TYPE: [SAND / SILTY SAND]       SILT / SILTY CLAY / CLAY / CRAY   GRAVEL [OTHER BEDROCK SANDSTONE         SOIL COLOR:       DARK YELLOWISH ORANGE       EVENTY COHESNE       UBANUSSE       PASTOTY (CAYS): NON PASTIC / SUBHTLY PASTIC / COHESNE   MOHLY PASTIC / SUBHTLY PASTIC / COHESNE / SUBHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURA		]		READING (ppm)	
a) SAMPLE ID:	1) SAMPLE ID: 95 BGT 5-pt. @	5' SAMPLE DATE: 05/04/12	SAMPLE TIME: 1428 LAB ANALYSIS: 418.1/	8015B/8021B/300.0 (CI) 0.0	
4) SAMPLE ID:					
SOIL DESCRIPTION:       SOIL TYPE: SAND/SILTY SAND       SILT / SILTY CLAY / CLAY / GRAVEL       OTHER       BEDROCK SANDSTONE         SOIL COLOR:       DARK YELLOWISH ORANGE       PLATICITY (CLAY / GRAVEL       OTHER       BEDROCK SANDSTONE         SOIL COLOR:       DARK YELLOWISH ORANGE       PLATICITY (CLAY / GRAVEL       OTHER       BEDROCK SANDSTONE         CONSISTENCY (INON COHESIVE SUIGHTLY COHESIVE)       SUIL / SILTY SATURATED / SUPERSATURATED       PLASTICITY (CLAY) / GRAVEL       OTHER       BEDROCK SANDSTONE         MOISTURE:       DRY/SLIGHTLY MOIST / WET / SATURATED / SUPER SATURATED       DENSE / VERY DENSE       PLASTICITY (CLAY) & SOIL / SILTY / SATURATED / SUPER SATURATED       DENSE / VERY SOIL / SILTY / SATURATED / SUPER SATURATED         SAMPLE TYPE:       GRAB (COMPOSITE) # 0F PTS.       5       DISCOLORATION/STAINING OBSERVED. YES (NO) EXPLANATION -       MC ODOR DETECTED: YES (NO) EXPLANATION -         ANY AREAS DISPLAYING WETNESS:       YES (NO) EXPLANATION -       LIGHT MOISTURE FROM HYDROVAC OPERATION.         APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : Y / N       EXPLANATION :       EXPLANATION :         ADDITIONAL COMMENTS:       PLAN TO PLACE 95 BBL LOW-PROFILE ABOVE-GRADE TANK @ SAME POSITION.       SOIL IMPACT DIMENSION ESTIMATION (Cubic Yards) : NA         SOIL IMPACT DIMENSION ESTIMATION:       NA       nt. X       NA       nt.       MC         SOIL IMPACT DIMENSION ES					
SOIL COLOR: DARK YELLOWISH ORANGE COHESING (ALL OTHERS): NON COHESINE / SUIGHTLY COHESINE (IGHLY COHESINE) CONSISTENCY (NON COHESINE SOILS): LOOSE / FIRM) DENSE (VERY DENSE] MOISTURE: [DRY/SLIGHTLY MOIST] MOIST / WET / SATURATED / SUPER SATURATED SAMPLE TYPE: GRAB [COMPOSITE] # OF PTS. 5 DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - MAY AREAS DISPLAYING WETNESS: YES NO EXPLANATION - LIGHT MOISTURE FROM HYDROVAC OPERATION. APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : Y / N EXPLANATION : ADDITIONAL COMMENTS: PLAN TO PLACE 95 BBL LOW-PROFILE ABOVE-GRADE TANK @ SAME POSITION. SOIL IMPACT DIMENSION ESTIMATION: NA f. X NA f. EXCAVATION ESTIMATION (Cubic Yards) : NA DEPTH TO GROUNDWATER: STOP MAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 100 ppm PLOT PLAN circle: attached WO: N1541965 WO: N1541965					
COHESION (ALL OTHERS): <u>NON COHESIVE / SLIGHTLY COHESIVE</u> COHESIVE <u>HIGHLY COHESIVE</u> CONSISTENCY (NON COHESIVE SOILS): <u>COOSE / FIRM</u> ] DENSE <u>VERY DENSE</u> MOISTURE: <u>DRY/SLIGHTLY MOIST</u> ] MOIST / WET / SATURATED / SUPER SATURATED SAMPLE TYPE: GRAB <u>COMPOSITE</u> # OF PTS. <u>5</u> DISCOLORATION/STAINING OBSERVED: YES <u>NO</u> EXPLANATION - <u>5</u> DISCOLORATION/STAINING OBSERVED: YES <u>NO</u> EXPLANATION - <u>5</u> DISCOLORATION/STAINING OBSERVED AND/OR OCCURRED : Y <u>N</u> EXPLANATION - <u>5</u> ANY AREAS DISPLAYING WETNESS: YES <u>NO</u> EXPLANATION - <u>LIGHT MOISTURE FROM HYDROVAC OPERATION. APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : Y <u>N</u> EXPLANATION : ADDITIONAL COMMENTS: <u>PLAN TO PLACE 95 BBL LOW-PROFILE ABOVE-GRADE TANK @ SAME POSITION.</u> SOIL IMPACT DIMENSION ESTIMATION: <u>NA</u> n. X <u>NA</u> n. <u>X NA</u> n. <u>EXCAVATION ESTIMATION (Cubic Yards)</u> : <u>NA</u> DEPTH TO GROUNDWATER: <u>S0'</u> NEAREST WATER SOURCE: <u>&gt;1,000'</u> NEAREST SURFACE WATER: <u>&lt;1,000'</u> NMOCCD TPH CLOSURE STD: <u>100</u> ppm SITE SKETCH <u>PLOT PLAN circle</u>: attached <u>MISCELL. NOTES</u> <u>WO: N1541965</u></u>	SOIL DESCRIPTION	SOIL TYPE: SAND / SILTY SAN	D SILT / SILTY CLAY / CLAY / GRAVEL	THER BEDROCK SANDSTONE	
CONSISTENCY (NON COHESIVE SOILS): [LOOSE / FIRM] DENSE [VERY DENSE] MOISTURE: [DRY/SLIGHTLYMOIST/WET/SATURATED / SUPER SATURATED SAMPLE TYPE: GRAB [COMPOSITE] # OF PTS					
SAMPLE TYPE: GRAB COMPOSITE # OF PTS. 5 DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION - LIGHT MOISTURE FROM HYDROVAC OPERATION. APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : Y /N EXPLANATION : ADDITIONAL COMMENTS: PLAN TO PLACE 95 BBL LOW-PROFILE ABOVE-GRADE TANK @ SAME POSITION. SOIL IMPACT DIMENSION ESTIMATION: NA ft. X NA ft. EXCAVATION ESTIMATION (Cubic Yards) : NA DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD THICLOSURE STD: 100 ppm SITE SKETCH PLOT PLAN circle: attached MISCELL. NOTES WO: N1541965					
DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION			HC ODOR DETECTED: YES NO EXPL	ANATION -	
ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION - LIGHT MOISTURE FROM HYDROVAC OPERATION. APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : Y / N EXPLANATION : ADDITIONAL COMMENTS: PLAN TO PLACE 95 BBL LOW-PROFILE ABOVE-GRADE TANK @ SAME POSITION. SOIL IMPACT DIMENSION ESTIMATION: NA ft. X NA ft. X NA ft. EXCAVATION ESTIMATION (Cubic Yards) : NA DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 100 ppm SITE SKETCH PLOT PLAN circle: attached OVM CALIB. READ. = 52.6 ppm ME 1:50 amp DATE 05/04/12 MISCELL. NOTES WO: N1541965					
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : Y / N EXPLANATION : ADDITIONAL COMMENTS: PLAN TO PLACE 95 BBL LOW-PROFILE ABOVE-GRADE TANK @ SAME POSITION. SOIL IMPACT DIMENSION ESTIMATION: NA ft. X NA ft. X NA ft. EXCAVATION ESTIMATION (Cubic Yards) : NA DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 100 ppm SITE SKETCH PLOT PLAN circle: attached M CALIB. READ. = 52.6 ppm RF = 0.52 OW CALIB. READ. = 52.6 ppm RF = 0.52 OW CALIB. GAS = 100 ppm RF = 0.52 OW CALIB. GAS = 100 ppm DATE: 05/04/12 MISCELL. NOTES WO: N1541965					
ADDITIONAL COMMENTS: PLAN TO PLACE 95 BBL LOW-PROFILE ABOVE-GRADE TANK @ SAME POSITION. SOIL IMPACT DIMENSION ESTIMATION: NA ft. X NA ft. X NA ft. EXCAVATION ESTIMATION (Cubic Yards) : NA DEPTH TO GROUNDWATER: <a href="https://www.scalestwater.source">SITE SKETCH</a> PLOT PLAN circle: attached   OWN CALIB. READ. = 52.6   PBGTL   X X X					
SOIL IMPACT DIMENSION ESTIMATION: NA ft. X NA ft. X NA ft. X NA ft. EXCAVATION ESTIMATION (Cubic Yards) : NA DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: SITE SKETCH PLOT PLAN circle: attached OWM CALLB. READ. = 52.6 ppm RF = 0.52 OWM CALLB. GAS = 100 ppm PF = 0.52 OWM CALLB. GAS = 100 ppm PF = 0.52 OWM CALLB. GAS = 100 ppm RF = 0.52 MISCELL. NOTES WO: N1541965					
DEPTH TO GROUNDWATER: <a>50'</a> NEAREST WATER SOURCE: <a>1,000'</a> NEAREST SURFACE WATER: <a>1,000'</a> NMOCD TPH CLOSURE STD: <a>100 ppm</a> PLOT PLAN circle: attached OVM CALIB. READ. = <a>52.6 ppm</a> RF = 0.52 OVM CALIB. GAS = <a>100 ppm</a> IME: <a>1:50 arr(pm) DATE: <a>05/04/12</a> MISCELL. NOTES WO: N1541965</a>					
N       PBGTL         (x x x)       PBGTL         T.B. ~ 5'				100	
X       X       Y       PBGTL T.B. ~ 5'       OVM CALIB. GAS = 100 ppm       ppm         MISCELL. NOTES       WO: N1541965	SITE SKETCH		PLOT PLAN circle: attached 0M	/ CALIB. READ. = 52.6 ppm RE = 0.52	
x     x     PBGTL       T.B.~5'     WO: N1541965					
(x x x) ← PBGTL T.B.~5' WO: N1541965				E: <u>1:50</u> am(pm) DATE: <u>05/04/12</u>	
$(x \hat{x} x) \leftarrow T.B. \sim 5'$ WO: N1541965			'Г	MISCELL. NOTES	
V /			<u>v</u>	NO: N1541965	
		X B.G.	-		
PK: ZSCHWLLBGT					
SEPARATOR PJ #: Permit date(s): 06/14/10	55				
OCD Appr. date(s): 02/08/12				OCD Appr. date(s): 02/08/12	
W.H. Tank OVM = Organic Vapor Meter Di ppm = parts per million		,	Ta	ovM = Organic Vapor Meter	
BGT Sidewalls Visible: (Y)/ N				BGT Sidewalls Visible: Y/ N	
X - S.P.D. BGT Sidewalls Visible: Y / N			X - S.P.D.		
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.	T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEI	OW-GRADE TANK LOCATION; SPD = SAMPLE POINT D	ESIGNATION; R.W. = RETAINING WALL; NA - NOT		
	TDAVEL NOTEC:	- TWILL, DYY - DOODLL WINLL, OD - OIIYOLL DOTTOW, D			

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## Analytical Report Lab Order 1205536

### Hall Environmental Analysis Laboratory, Inc.

## Date Reported: 5/17/2012 Client Sample ID: 95 BGT 5-pt @ 5' Collection Date: 5/4/2012 2:28:00 PM

CLIENT: Blagg Engineering Project: Florance C 8M

1205536-001

Lab ID:

### Collection Date: 5/4/2012 2:28:00 PM Received Date: 5/10/2012 3:05:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/14/2012 10:06:09 PM
Surr: DNOP	98.4	82.1-121	%REC	1	5/14/2012 10:06:09 PM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/15/2012 7:41:02 PM
Surr: BFB	105	69.7-121	%REC	1	5/15/2012 7:41:02 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.048	mg/Kg	1	5/15/2012 7:41:02 PM
Toluene	ND	0.048	mg/Kg	1	5/15/2012 7:41:02 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/15/2012 7:41:02 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/15/2012 7:41:02 PM
Surr: 4-Bromofluorobenzene	93.5	80-120	%REC	1	5/15/2012 7:41:02 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	ND	7.5	mg/Kg	5	5/16/2012 6:14:44 AM
EPA METHOD 418.1: TPH					Analyst: JMP
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	5/15/2012

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.
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Client: Blagg Engineering **Project:** Florance C 8M

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Sample ID	MB-1960	SampType:	MBLK	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID:	PBS	Batch ID:	1960	F	RunNo: 28	310				
Prep Date:	5/16/2012	Analysis Date:	5/16/2012	S	SeqNo: 78	3101	Units: mg/K	g		
Analyte		Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5							
Sample ID	LCS-1960	SampType:	LCS	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID:	1960	F	RunNo: 28	310				
Prep Date:	5/16/2012	Units: mg/K	g							
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5 15.00	0	99.0	90	110			
Sample ID	1205536-001AMS	SampType:	MS	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID:	95 BGT 5-pt @ 5'	Batch ID:	1960	RunNo: 2810						
Prep Date:	5/16/2012	Analysis Date:	5/16/2012	S	SeqNo: 78	3104	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	7.5 15.00	0	95.3	74.6	118			
Sample ID	1205536-001AMSE	SampType:	MSD	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID:	95 BGT 5-pt @ 5'	Batch ID:	1960	R	RunNo: 28	10				
Prep Date:	5/16/2012	Analysis Date:	5/16/2012	S	SeqNo: 78	105	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	7.5 15.00	0	94.5	74.6	118	0.888	20	

#### 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 В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit RL Reporting Detection Limit

WO#: 1205536

17-May-12

Hall	Environmental	Analysis	Laborat	tory, Inc.
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**Client:** Blagg Engineering Florance C 8M **Project:** 

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Sample ID MB-1929	SampType: MBLK	TestCode: EPA Method	418.1: TPH						
Client ID: PBS	Batch ID: 1929	RunNo: 2763							
Prep Date: 5/14/2012	Analysis Date: 5/15/2012	SeqNo: 76605	Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Petroleum Hydrocarbons, TR	ND 20								
Sample ID LCS-1929	SampType: LCS	TestCode: EPA Method	418.1: TPH						
Client ID: LCSS	Batch ID: 1929	RunNo: 2763							
Prep Date: 5/14/2012	Analysis Date: 5/15/2012	SeqNo: 76606	Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Petroleum Hydrocarbons, TR	99 20 100.0	0 98.7 87.8	115						
Sample ID LCSD-1929	SampType: LCSD	TestCode: EPA Method	418.1: TPH						
Client ID: LCSS02	Batch ID: 1929	RunNo: 2763							
Prep Date: 5/14/2012	Analysis Date: 5/15/2012	SeqNo: 76607	Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual					
Petroleum Hydrocarbons, TR	100 20 100.0	0 100 87.8	115 1.33	8.04					

#### Qualifiers:

- \*/X Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- R RPD outside accepted recovery limits

- В 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

WO#:

1205536 17-May-12

Hall Environmental Ana	lysis Laboratory, Ir	ıc.
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SampType: MBLK

Blagg Engineering Client: Florance C 8M **Project:** 

Sample ID MB-1913

Client ID: PBS Batch ID: 1913 RunNo: 2729 Prep Date: 5/13/2012 Analysis Date: 5/14/2012 SeqNo: 76201 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 9.6 10.00 96.3 82.1 121 Sample ID LCS-1913 SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics Client ID: LCSS Batch ID: 1913 RunNo: 2729 Prep Date: 5/13/2012 Analysis Date: 5/14/2012 SeqNo: 76202 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Diesel Range Organics (DRO) 37 50.00 52.6 10 0 73.9 130 Surr: DNOP 4.4 5.000 89 0 82.1 121 Sample ID 1205464-001AMS SampType: MS TestCode: EPA Method 8015B: Diesel Range Organics BatchQC Batch ID: 1886 Client ID. RunNo: 2730 Prep Date: 5/10/2012 Analysis Date: 5/14/2012 SeqNo: 76205 Units: %REC SPK value SPK Ref Val Analyte Result PQL %REC LowLimit HighLimit %RPD RPDLimit Qual 5.5 Surr: DNOP 5.056 109 82.1 121 Sample ID 1205464-001AMSD SampType: MSD TestCode: EPA Method 8015B: Diesel Range Organics Client ID: BatchQC Batch ID: 1886 RunNo: 2730 Prep Date: 5/10/2012 Analysis Date: 5/14/2012 SeqNo: 76206 Units: %REC Analyte Result SPK value SPK Ref Val %REC HighLimit %RPD RPDLimit PQL LowLimit Qual 5.0 Surr: DNOP 4.970 100 82 1 121 0 0 Sample ID 1205505-001AMS SampType: MS TestCode: EPA Method 8015B: Diesel Range Organics Batch ID: 1913 Client ID: BatchQC RunNo: 2729 Units: mg/Kg Prep Date: 5/13/2012 Analysis Date: 5/14/2012 SeqNo: 76208 RPDLimit Analyte SPK Ref Val %REC LowLimit HighLimit %RPD Result POL SPK value Qual Diesel Range Organics (DRO) 79 51.39 47.59 60.9 57.2 10 146 Surr: DNOP 121 54 5.139 105 82 1 Sample ID 1205505-001AMSD SampType: MSD TestCode: EPA Method 8015B: Diesel Range Organics Client ID: BatchQC Batch ID: 1913 RunNo: 2729 Prep Date: 5/13/2012 Analysis Date: 5/14/2012 SeqNo: 76283 Units: mg/Kg HighLimit SPK value SPK Ref Val %REC LowLimit %RPD **RPDL**imit Analyte Result PQL Qual S Diesel Range Organics (DRO) 75 9.9 49.60 47.59 55.9 57.2 146 4.64 26.7 Surr: DNOP 5.1 4.960 103 82.1 121 0 0

#### **Oualifiers:**

- Value exceeds Maximum Contaminant Level. \*/X
- Value above quantitation range E
- Analyte detected below quantitation limits T
- RPD outside accepted recovery limits R

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND

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Reporting Detection Limit RL

1205536 17-May-12

WO#·

TestCode: EPA Method 8015B: Diesel Range Organics

Hall	Environmental	Analysis	Laboratory,	Inc.

Client: Blagg Engineering

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Project: Florance C 8M

Sample ID         MB-1910         SampType:         MBLK         TestCode:         EPA Method 8015B:         Gasoline Range												
Client ID: PBS	Batch	n ID: 19	10	F	RunNo: 2	808						
Prep Date: 5/11/2012	Analysis D	ate: 5/	15/2012	5	SeqNo: 7	7968	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	ND	5.0										
Surr: BFB	1,000		1,000		104	69.7	121					
Sample ID LCS-1910	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015B: Gase	oline Rang	e			
Client ID: LCSS	Batch	n ID: 19	10	F	RunNo: 28	808						
Prep Date: 5/11/2012	Analysis D	ate: 5/	15/2012	5	SeqNo: 7	7970	Units: mg/l	Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	98.5	133					
Surr: BFB	1,100		1,000		112	69.7	121					
Sample ID 1205536-001AMS	SampT	ype: MS	3	Tes	tCode: EF	PA Method	8015B: Gase	oline Rang	e			
Client ID: 95 BGT 5-pt @ 5'	Batch	1D: 19	10	F	unNo: 2	808						
Prep Date: 5/11/2012	Analysis D	ate: 5/	15/2012	5	SeqNo: 7	7972	Units: mg/l	Кg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	27	5.0	24.88	0	110	85.4	147					
Surr: BFB	1,100		995.0		110	69.7	121					
Sample ID 1205536-001AMS	D SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015B: Gase	oline Rang	e			
Client ID: 95 BGT 5-pt @ 5'	Batch	n ID: 19	10	F	unNo: 28	808						
Prep Date: 5/11/2012	Analysis D	ate: 5/	15/2012	S	eqNo: 7	7973	Units: mg/ł	٨g				
				ODV D CLU			1.12 - 1.1.2 21		DDDI ''			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Analyte Gasoline Range Organics (GRO)	Result 27	PQL 4.9	SPK value 24.27	SPK Ref Val	%REC 113	LowLimit 85.4	147	%RPD 0.281	RPDLimit 19.2	Qual		
,							0			Qual		

#### 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

17-May-12

WO#: 1205536

Client: Blagg Engineering

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Project: Florance C 8M

rojecti	Tioranee	C OIII													
Sample ID	MB-1910     SampType: MBLK     TestCode: EPA Method 8021B: Volatiles														
Client ID:	PBS	Batcl	h ID: 19	10	RunNo: 2808										
Prep Date:	5/11/2012	Analysis D	Date: 5/	15/2012	5	SeqNo: 7	7994	Units: mg/Kg							
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												
,	ofluorobenzene	0.93		1.000		93.2	80	120							
Sample ID	LCS-1910	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles						
Client ID:	LCSS	Batch	h ID: 19	10	F	RunNo: 2	808								
Prep Date:	5/11/2012	Analysis D	Date: 5/	15/2012	S	SeqNo: 7	7995	Units: mg/k	(g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		0.93	0.050	1.000	0	92.7	83.3	107							
Toluene		0.97	0.050	1.000	0	96.8	74.3	115							
Ethylbenzene		0.95	0.050	1.000	0	94.8	80.9	122							
kylenes, Total		2.8	0.10	3.000	0	94.6	85.2	123							
Surr: 4-Brome	ofluorobenzene	0.97		1.000		97.4	80	120							
Sample ID	1205537-001AMS	SampT	ype: MS	6	Tes	tCode: El	PA Method	8021B: Volat	tiles						
Client ID:	BatchQC	Batch	n ID: 19	10	R	RunNo: 2	808								
Prep Date:	5/11/2012	Analysis D	Date: 5/	15/2012	S	eqNo: 7	qNo: 77998 Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		0.89	0.050	0.9970	0	89.2	67.2	113							
Foluene		0.92	0.050	0.9970	0	92.4	62.1	116							
Ethylbenzene		0.89	0.050	0.9970	0	89.7	67.9	127							
Kylenes, Total		2.7	0.10	2.991	0	91.8	60.6	134							
Surr: 4-Bromo	ofluorobenzene	0.99		0.9970		99.0	80	120							
Sample ID	1205537-001AMSD	SampT	ype: MS	D	Test	tCode: El	PA Method	8021B: Volat	tiles						
Client ID:	BatchQC	Batch	n ID: 19	10	R	unNo: 2	808								
Prep Date:	5/11/2012	Analysis D	)ate: 5/	15/2012	S	eqNo: 7	7999	Units: mg/K	g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		0.87	0.049	0.9881	0	87.9	67.2	113	2.36	14.3					
		0.00	0.049	0.9881	0	90.6	62.1	116	2.93	15.9					
oluene		0.90	0.049	0.0001											
		0.90	0.049	0.9881	0	88.8	67.9	127	1.84	14.4					
Foluene Ethylbenzene Kylenes, Total					0 0			127 134	1.84 2.94	14.4 12.6					
hylbenzene /lenes, Total	ofluorobenzene	0.88	0.049	0.9881		88.8	67.9								

#### Qualifiers:

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RL Reporting Detection Limit

WO#: **1205536** *17-May-12* 

ENVIRONMENTA	L
ANALYSIS	
LABORATORY	

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.con

## Sample Log-In Check List

the second s	Property in the local division in the local	the subscription of the local distance of th	the second s	the response in the second sec	And in case of the local diversion of the local diversion of the local diversion of the local diversion of the	THE OWNER WHEN PERSON NAMED	And in case of the local division of the loc		THE R. P. LEWIS CO., NAME AND ADDRESS OF TAXABLE PARTY.	the surface of the su
Client Na	ame:	BLAGG		Worl	k Ord	er Nun	nber:	12055	536	
Receive	d by/date:	AF	05/10/12							
Logged	By:	Lindsay Mangin	5/10/2012 3:0	5:00 PM			O.	4the	Ø	
Complet	ted By:	Lindsay Mangin	5/11/2012 1:23	3:36 PM			A	Ly Har	Ø	
Reviewe	ed By:	ID OS/11	/12				V			
Chain d	of Cust	ody								
1. Wei	re seals ir	ntact?		,	Yes	N		No	ot Present 🗹	
2. Is C	Chain of C	ustody complete?		,	Yes	No		No	t Present	
3. Hov	w was the	sample delivered?		<u>(</u>	Courie	er				
Log In										
	olers are p	present? (see 19. for	cooler specific informatio	n)	Yes	No.			NA	
5. Was	s an atten	npt made to cool the	samples?	,	Yes	No.	•		NA 🗌	
6. Wei	re all sam	ples received at a te	emperature of >0° C to 6.	0°C	Yes	✓ No				
7. San	nple(s) in	proper container(s)?	,	,	Yes	V No				
8. Suff	ficient sar	mple volume for indic	cated test(s)?		Yes	✓ No				
9. Are	samples	(except VOA and OI	NG) properly preserved?	,	Yes	V No				
10. Was	s preserva	ative added to bottle	s?	,	Yes	N			NA 🗌	
11. VO	A vials ha	ve zero headspace?		,	Yes			No V	/OA Vials 🔽	
12. Wer	re any sar	mple containers rece	eived broken?		Yes					
		ork match bottle lab			Yes	V No			# of preserved bottles checked for pH:	
14. Are	matrices	correctly identified o	n Chain of Custody?	`	Yes	V No			(<2	or >12 unless noted)
15. Is it	clear what	at analyses were req	uested?		100	✓ No			Adjusted?	
		ing times able to be customer for authoriz		`	Yes	✓ No			Checked by:	
Special	I Handl	ing (if applicabl	e)							
			ncies with this order?	,	Yes				NA 🗹	
	Person	Notified:		Date:						
	By Who	m:			eMail		hone	F	ax 🗌 In Person	
	Regardi	ng:	*			CIL-MADE LOW		-	and a second	-
	Client In	structions:				<u>18 1 11</u>			nand aantota, shir kup kupanta nam	-

18. Additional remarks:

#### 19. Cooler Information

C	cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1		3.8	Good	Yes			

С	Chain-of-Custody Record			Turn-Around Time:															BIT					
Client:	BLAG	5 ENG	NEERING INC.	Standard				ANALYSIS LABORATORY																
ĩ	3PA	MERICA	1	Project Name:				www.hallenvironmental.com																
Mailing	Address	POT	Box 87	FLORANCE C 8M				4901 Hawkins NE - Albuquerque, NM 87109																
T	2,	1.0.6	NM 87413	Project #:																				
			32-1199	1			Tel. 505-345-3975 Fax 505-345-4107 Analysis Request																	
email o				Project Mana	ger:		) () () () () () () () () () () () () ()																	
	QA/QC Package:			1	-		(8021)	s on	(Gas/Diesel)					4,SC	B's									
Stan	Standard   Level 4 (Full Validation			J. BL	466		's (8	(Ga	3as/					PO,	2 PC									
				Sampler: J.			EtaB's	TPH (Gas only)	5B (C	÷.	<del>,</del>	Ŧ		NO2	NO2	NO <sub>2</sub>	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's						Î
	NELAP  Other			On lice:	ZSYes alay	E No	14	+	3015	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	0	NO <sub>3</sub> ,	es /		8270 (Semi-VOA)	N			Air Bubbles (Y or N)			
	(1ype)_		· · · · · · · · · · · · · · · · · · ·	Samplement	relature 2 - 02		MEBE	<b>ITB</b>	por	hod	pou	A or	Meta	CI,	ticid	(YO)	V-in	RID			Se ()			
Date	Time	Matrix	Sample Request ID	Con Fill Constant States	Preservative	RAL NO.	+	BTEX + MTBE	TPH Method 801	Met	(Met	Nd)	RCRA 8 Metals	s (F	Pes	8260B (VOA)	(Ser	CHLORIDE			ibble			
Date	Time	Wattix	Campie Request ID	Type and #	Туре	1205621	BTEX +	E	F	H	DB	310	CR/	nion	081	260	270	U			ir Bu			
3/4/2	1428	SOIL	95 BGT 1 5-pt e 5	4	COOL	-001	X	8			ш	00	œ	A	8	00	00	V	+	-	A			
1/2	1760	JOIL	5-pte5	402×1	COOL	=001	<b>^</b>		X	X								-	+	+				
									-				_	_	_			-	-	+	_			
																				+				
												8						_	$\rightarrow$	_				
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Date:	Time:	Relinquishe	ed by:	Received by:		Date Time		narks			) 4	Di	20	01	v e	15								
Date:	0925 Time:	Relinquishe	(1) Hay	Received by:	Jaeters	/10/12 925 Date Time	N1541965 ZSCHWLLBGt																	
5/1	inne.			1111	1	5/10/4 1505		ft.																
10/12 1505 / Mister hallen			AMO	7	4/10/- 1303	se	++ 1	real	e															

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