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

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

Form C-144
Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

PMT
II 140316
045-21881

Type of action:
- ☐ Below grade tank registration
- ☐ Permit of a pit or proposed alternative method
- ☒ Closure of a pit, below-grade tank, or proposed alternative method
- ☐ Modification to an existing permit/or registration
- ☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: BP America Production Company OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401
Facility or well name: Valentine GC 1A
API Number: 3004521881 OCD Permit Number:
U/L or Qtr/Qtr D Section 32 Township 32N Range 10W County: San Juan
Center of Proposed Design: Latitude 36.946056 Longitude -107.911940 NAD: ☐ 1927 ☒ 1983
Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC
Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thickness _____ mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____ bbl Dimensions: L_____ x W_____ x D_____

3.
☒ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC Tank 1
Volume: 21.0 bbl Type of fluid: Produced water
Tank Construction material: Steel
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other Single walled/single bottom; no visible sidewalls
Liner type: Thickness _____ mil ☐ HDPE ☐ PVC ☐ Other _____

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.

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_____

6.

Netting: Subsection E of 19.15.17.11 NMAC *(Applies to permanent pits and permanent open top tanks)*

☐ Screen ☐ Netting ☐ Other_____

☐ Monthly inspections (If netting or screening is not physically feasible)

7.

Signs: Subsection C of 19.15.17.11 NMAC

☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☐ Signed in compliance with 19.15.16.8 NMAC

8.

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 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. ☐ Yes ☐ No ☐ NA
- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells

Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit . ☐ Yes ☐ No ☐ NA
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

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)** ☐ Yes ☐ No
- Written confirmation or verification from the municipality; Written approval obtained from the municipality

Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)** ☐ Yes ☐ No
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

Within an unstable area. **(Does not apply to below grade tanks)** ☐ Yes ☐ No
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

Within a 100-year floodplain. **(Does not apply to below grade tanks)** ☐ Yes ☐ No
- FEMA map

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). ☐ Yes ☐ No
- Topographic map; Visual inspection (certification) of the proposed site

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. ☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

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.) ☐ Yes ☐ No
- Topographic map; Visual inspection (certification) of the proposed site

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	☐ Yes ☐ No
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

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

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 documents are attached.

☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ A List of wells with approved application for permit to drill associated with the pit.
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ 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: _____

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 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 H_2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Multi-well Fluid Management Pit ☐ 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

14.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

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 source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 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 ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 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	☐ 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 plan. Please indicate, 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 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 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 cannot be achieved)
- ☐ 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

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 belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.
OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** _____

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. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ **Closure Completion Date:** 2/2/2016

20.
Closure Method:

☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain.

21.
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Proof of Closure Notice (surface owner and division)
- ☐ Proof of Deed Notice (required for on-site closure 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)

On-site Closure Location: Latitude 36.946056 Longitude -107.911940 NAD: ☐ 1927 ☒ 1983

22.

Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Steve Moskal Title: Field Environmental Coordinator

Signature: Date: February 15, 2016

e-mail address: steven.moskal@bp.com Telephone: (505) 326-9497

BP AMERICA PRODUCTION COMPANY
SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Valentine GC 001A
API No. 3004521881
Unit Letter D, Section 32, 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.
   Notice is attached.

2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.
   Notice was provided. NMOCD was on site during the removal of the BGT.

3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
   a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
   b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
   c. Basin Disposal, Permit NM-01-0005 (Liquids)
   d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
   e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)

f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

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

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

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

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

Constituents	Testing Method **21 bbl BGT**	Release Verification (mg/Kg)	Sample results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	<1.0
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	64.3
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	10,400
Chlorides	US EPA Method 300.0 or 4500B	250 or background	<30

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.

Soil under the BGT was sampled for TPH, BTEX and chloride. BTEX and chloride concentrations were below the stated limits. TPH exceeded the standard but was subsequently excavated and removed from the site. The field report and laboratory reports are attached.

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

C-141 is attached.

8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
   Sampling results significant release has occurred. The site was remediated through excavation.

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
   Sample results demonstrate TPH concentrations greater than the BGT closure standard. The site was remediated following the spill and release guidelines. The location has been backfilled and will be reclaimed during final reclamation activities.

10. BP shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BP shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.
    The area has been backfilled and will be reclaimed once the well has been plugged and abandoned.

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

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

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

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

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

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

16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.
    Certification section of C-144 has been completed.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Valentine GC 1A	Facility Type: Natural gas well

Surface Owner: Fee	Mineral Owner: Fee	API No. 3004521881

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
D	32	32N	10W	1,180	North	795	West	

Latitude 36.946056 **Longitude** -107.911940

NATURE OF RELEASE

Type of Release: condensate/oil/water	Volume of Release: unknown	Volume Recovered: N/A
Source of Release: below grade tank – 21 bbl	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: January 26, 2016; 11:00 AM
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ 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. Soil analysis resulted for BTEX and chloride below standards. However, laboratory results for TPH via Method 8015 extended were 10,400 ppm. The area was excavated and contaminants removed from the site. Field reports and laboratory results are attached.

Describe Area Affected and Cleanup Action Taken.* The impacts found surrounding and below the BGT were excavated and transported off site for landfarming. Approximately 95 cubic yards were removed from the site. Final laboratory analysis supported closure of the BGT location.

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 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 compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Steve Moskal	Approved by Environmental Specialist:	
Title: Field Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached ☐
Date: February 15, 2016 Phone: 505-326-9497		

* Attach Additional Sheets If Necessary

bp

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

January 20, 2016

State Land Office
Brandon Foley
PO Box 3170
Farmington, NM 87402

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Re: Notification of plans to close/remove a below grade tank
Well Name: VALENTINE GC 001A
API #: 3004521881

Dear Mr. Foley,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about January 25, 2016. If there aren't any unforeseen problems, the work should be completed within 10 working days.

As a point of clarification, BP will be closing the below grade tank and either operating without one or replacing it with an above ground tank, the well site will continue to operate.

Unless you have questions about this notice, there is no need to respond to this letter. If you do have any questions or concerns, please contact me at (505)-326-9214.

Sincerely,

Charlie Davis

BP America Production Company

Moskal, Steven

From: Railsback, Farrah (CH2M HILL)
Sent: Wednesday, January 20, 2016 12:51 PM
To: Smith, Cory, EMNRD (Cory.Smith@state.nm.us); Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)
Cc: Moskal, Steven; 'blagg_njv@yahoo.com'; jeffcblagg@aol.com
Subject: RE: BP Pit Close Notification - VALENTINE GC 001A - RESCHEDULE

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

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

January 20, 2016

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

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

VALENTINE GAS COM 001A
API 30-045-21881
(D) Section 32 – T32N – R10W
San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields:

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 21 bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around January 25, 2016.

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

Sincerely,

Steven Moskal

BP Field Environmental Coordinator

(505) 326-9497

From: Railsback, Farrah (CH2M HILL)
Sent: Wednesday, December 16, 2015 3:34 PM
To: Smith, Cory, EMNRD (Cory.Smith@state.nm.us)
Cc: Moskal, Steven; 'blagg_njv@yahoo.com'; jeffcblagg@aol.com
Subject: RE: BP Pit Close Notification - VALENTINE GC 001A

Work on this site has been postponed until a later date. I will let you know when it gets rescheduled.
Thank you.
Farrah

From: Railsback, Farrah (CH2M HILL)
Sent: Thursday, December 10, 2015 8:22 AM
To: Smith, Cory, EMNRD (Cory.Smith@state.nm.us)
Cc: Moskal, Steven; 'blagg_njv@yahoo.com'; jeffcblagg@aol.com
Subject: RE: BP Pit Close Notification - VALENTINE GC 001A

The BGT is now scheduled to be closed on this site on December 14, 2015.

From: Railsback, Farrah (CH2M HILL)
Sent: Monday, November 30, 2015 2:42 PM
To: Smith, Cory, EMNRD (Cory.Smith@state.nm.us)
Cc: Moskal, Steven; 'blagg_njv@yahoo.com'; jeffcblagg@aol.com
Subject: BP Pit Close Notification - VALENTINE GC 001A

I apologize. I had the incorrect site listed in the subject line. This notice is for the Valentine GC 001A.
Thank you.

From: Railsback, Farrah (CH2M HILL)
Sent: Monday, November 30, 2015 2:29 PM
To: Smith, Cory, EMNRD (Cory.Smith@state.nm.us)
Cc: Moskal, Steven; 'blagg_njv@yahoo.com'; jeffcblagg@aol.com
Subject: RE: BP Pit Close Notification - GCU 412

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

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

November 30, 2015

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

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

VALENTINE GAS COM 001A
API 30-045-21881
(D) Section 32 – T32N – R10W
San Juan County, New Mexico

Dear Mr. Cory Smith:

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 21 bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around December 3, 2015.

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

Sincerely,

Steven Moskal
BP Field Environmental Coordinator

(505) 326-9497

BP AMERICA PRODUCTION COMPANY

REMEDIATION OF IMPACTS ASSOCIATED WITH 21 BARREL BELOW-GRADE TANK
VALENTINE GC 001A

API #: 30-045-21881

Legal Description: (Unit Letter D, Sec. 32 -T32N -R10W, NMPM)

CHRONOLOGICAL EVENT SUMMATION

1. **January 26, 2016**: Impacted soils discovered during confirmation sampling of 21 barrel below-grade tank. Preliminary investigation conducted with the advancement of four (4) test holes (see Field Report - page 1 of 3 for locations).

2. **January 29, 2016**: Remediation via excavation initiated. New Mexico Oil Conservation Division (NMOCD) representative from the District III Aztec office was present during the sample collection (see Field Report - page 2 of 3).

3. **February 02, 2016**: Subsequent sampling of expanded southwest sidewall conducted (see Field Report - page 3 of 3).

4. **February 10, 2016**: Final excavation measurements (in feet) approximately 15 x 15 x 9.5 average depth below grade. Total volume transported to JFJ Landfarm = 95 cubic yards (Form C-138 attached).


BP AMERICA PRODUCTION COMPANY
VALENTINE GAS COM 001A
API 3004521881 LEASE STATE
1180 FNL 795 FWL (D) SEC 32 T32N R10
SAN JUAN COUNTY ELEV 6104
LAT 36° 56' 45.600"
LONG 107° 54' 42.948"


Compressor
21 BGT
Separator

CLIENT: BP

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

API #: 3004521881
TANK ID (if applicble): B

FIELD REPORT:

(circle one): BGT CONFIRMATION / [RELEASE INVESTIGATION] / OTHER:

PAGE #: 1 of 3

SITE INFORMATION:

SITE NAME: VALENTINE GC # 1A

QUAD/UNIT: D SEC: 32 TWP: 32N RNG: 10W PM: NM CNTY: SJ ST: NM

1/4 -1/4/FOOTAGE: 1,180'N / 795'W NW/NW LEASE TYPE: FEDERAL / STATE / [FEE] / INDIAN

LEASE #: - PROD. FORMATION: MV CONTRACTOR: STRIKE MBF - S. GLYNN

DATE STARTED: 01/26/16

DATE FINISHED:

ENVIRONMENTAL SPECIALIST(S): NJV

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.94558 X 107.91226 GL ELEV.: 6,104'

1) 21 BGT (SW/SB)	GPS COORD.: 36.946056 X 107.911940	DISTANCE/BEARING FROM W.H.: 181', N28E
2)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:
3)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:
4)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:

SAMPLING DATA:

CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL

						OVM READING (ppm)
1) SAMPLE ID: NE @ 4' (21)	SAMPLE DATE: 01/26/16	SAMPLE TIME: 1118	LAB ANALYSIS:	SIDEWALLS COMBINE FOR 4 PT. COMPOSITE 4PC - SW @ 4' - 5' (21)		1,207
2) SAMPLE ID: SE @ 4.5' (21)	SAMPLE DATE: 01/26/16	SAMPLE TIME: 1018	LAB ANALYSIS:			998
3) SAMPLE ID: SW @ 5' (21)	SAMPLE DATE: 01/26/16	SAMPLE TIME: 1133	LAB ANALYSIS:			446
4) SAMPLE ID: NW @ 4' (21)	SAMPLE DATE: 01/26/16	SAMPLE TIME: 1033	LAB ANALYSIS:	8015B/8021B/300.0 (Cl)		501
5) SAMPLE ID: TB(A) @ 6' (21)	SAMPLE DATE: 01/26/16	SAMPLE TIME: 1045	LAB ANALYSIS:	8015B/8021B/300.0 (Cl)		715

SOIL DESCRIPTION:

SOIL TYPE: [SAND] / [SILTY SAND] / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK (SANDSTONE)

SOIL COLOR: MOSTLY DARK YELLOWISH ORANGE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

COHESION (ALL OTHERS): [NON COHESIVE] / SLIGHTLY COHESIVE / COHESIVE / [HIGHLY COHESIVE]

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

CONSISTENCY (NON COHESIVE SOILS): [LOOSE] / [FIRM] / DENSE / [VERY DENSE]

HC ODOR DETECTED: [YES] / NO EXPLANATION - DISCOLORED SOIL AND SOILS & BEDROCK SANDSTONE IMMEDIATELY ADJACENT TO BGT.

MOISTURE: DRY / [SLIGHTLY MOIST] / MOIST / [WET] / SATURATED / SUPER SATURATED

SAMPLE TYPE: [GRAB] / COMPOSITE - # OF PTS. 5

ANY AREAS DISPLAYING WETNESS: [YES] / NO EXPLANATION - MOST LIKELY FROM SNOW MELT.

DISCOLORATION/STAINING OBSERVED: [YES] / NO EXPLANATION - MEDIUM GRAY SOIL DIRECTLY BENEATH BGT APPROX. 0.5 - 1 FOOT THICKNESS.

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: YES / [NO] EXPLANATION -

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : [YES] / NO EXPLANATION: DISCOLORED SOILS DIRECTLY BENEATH BGT.

EQUIPMENT SET OVER RECLAIMED AREA: YES / [NO] EXPLANATION -

OTHER: APPEARS THAT SANDSTONE WAS CARVED OUT TO INSTALL 21 BGT. BEDROCK WAS OBSERVED AS SHALLOW AS 2 FEET (FT.) BELOW GRADE < 10 FT. FROM BGT (NW QUADRANT). BEDROCK SANDSTONE DISCOLORATION PHASED INTO OLIVE GRAY TO A PALE YELLOWISH ORANGE.

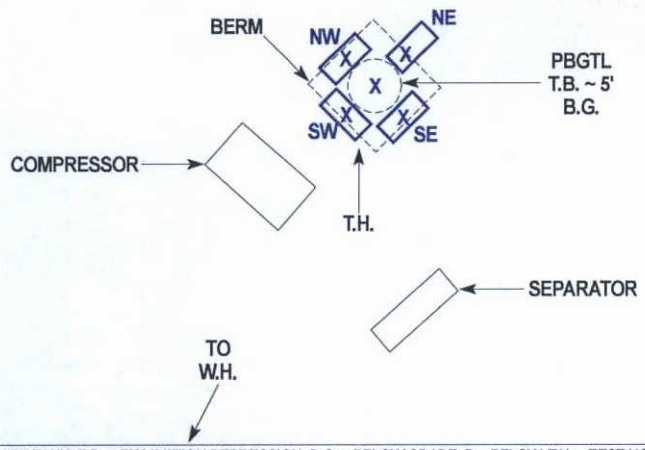
SOIL IMPACT DIMENSION ESTIMATION: 10 ft. X 10 ft. X 1 ft. IMPACTED SOIL ESTIMATION (Cubic Yards) : 3 - 5 (±)

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 1,000 ppm

SITE SKETCH

BGT Located : off / [on] site

PLOT PLAN circle: attached



OVM CALIB. READ. = 52.2 ppm RF =0.52

OVM CALIB. GAS = 100 ppm

TIME: 11:10 (am)/pm DATE: 01/26/16

MISCELL. NOTES

WO:

REF. #: P-76

VID: VHIXONEVB2

PJ #:

Permit date(s): 06/02/10

OCD Appr. date(s): 10/19/15

Tank ID	OVM = Organic Vapor Meter ppm = parts per million
B	BGT Sidewalls Visible: Y / (N)
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N

Magnetic declination: 10° E

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.

NOTES: GOOGLE EARTH IMAGERY DATE: 3/15/2015. ONSITE: 01/26/16

CLIENT: BP

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

API #: 3004521881
TANK ID (if applicble): B

FIELD REPORT:

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:

PAGE #: 2 of 3

SITE INFORMATION:

SITE NAME: VALENTINE GC # 1A

DATE STARTED: 01/29/16
DATE FINISHED:

QUAD/UNIT: D SEC: 32 TWP: 32N RNG: 10W PM: NM CNTY: SJ ST: NM

1/4 -1/4/FOOTAGE: 1,180'N / 795'W NW/NW LEASE TYPE: FEDERAL / STATE / FEE / INDIAN

LEASE #: - PROD. FORMATION: MV CONTRACTOR: STRIKE MBF - C. PARKS

ENVIRONMENTAL SPECIALIST(S): NJV

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.94558 X 107.91226 GL ELEV.: 6,104'

1) 21 BGT (SW/SB)	GPS COORD.: 36.946056 X 107.911940	DISTANCE/BEARING FROM W.H.:	181', N28E
2)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:	
3)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:	
4)	GPS COORD.:	DISTANCE/BEARING FROM W.H.:	

SAMPLING DATA:

CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL

								OVM READING (ppm)
1)	SAMPLE ID: 3PC - NE @ 5.5' - 7.5'	SAMPLE DATE:	01/29/16	SAMPLE TIME:	1115	LAB ANALYSIS:	8015B/8021B	90.3
2)	SAMPLE ID: 3PC - SE @ 5.5' - 7.5'	SAMPLE DATE:	01/29/16	SAMPLE TIME:	1120	LAB ANALYSIS:	8015B/8021B	318
3)	SAMPLE ID: 3PC - SW @ 5' - 7'	SAMPLE DATE:	01/29/16	SAMPLE TIME:	1125	LAB ANALYSIS:	8015B/8021B	372
4)	SAMPLE ID: 3PC - NW @ 5' - 7'	SAMPLE DATE:	01/29/16	SAMPLE TIME:	1128	LAB ANALYSIS:	8015B/8021B	508
5)	SAMPLE ID: 5PC - EB @ 9.5'	SAMPLE DATE:	01/29/16	SAMPLE TIME:	1135	LAB ANALYSIS:	8015B/8021B	33.4

SOIL DESCRIPTION:

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK (SANDSTONE)

SOIL COLOR: MOSTLY DARK YELLOWISH ORANGE (BEDROCK)

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

CONSISTENCY ~~(NON COHESIVE SOILS)~~: LOOSE / FIRM / DENSE / VERY DENSE

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED

SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. 3 & 5

DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - GRAYISH GREEN IN BOTTOM HALF OF NW SIDEWALL & APPROX. 2 FEET IN SE & SW WALLS.

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

HC ODOR DETECTED: YES / NO EXPLANATION - OVM SAMPLES IN SE, SW, & NW WALLS (all from very hard bedrock sandstone).

ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION -

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: YES / NO EXPLANATION -

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES / NO EXPLANATION: BASED ON DISCOLORATION & OVM SAMPLE READINGS.

EQUIPMENT SET OVER RECLAIMED AREA: YES / NO EXPLANATION -

OTHER: ENTIRE EXCAVATION CONSISTED OF HARD TO VERY HARD, WELL CONSOILDATED, WELL CEMENTED BEDROCK SANDSTONE. COLLECTED SAMPLES BY SCRAPING SIDEWALLS WITH GEOPICK HAMMER. EXCAVATION BOTTOM SCRAPED WITH BACKHOE (dark yellowish orange in color).

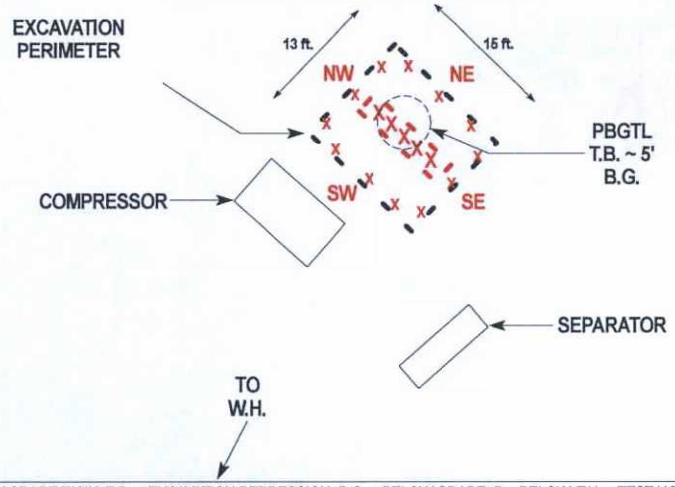
SOIL IMPACT DIMENSION ESTIMATION: 15 ft. X 13 ft. X 9.5 ft. IMPACTED SOIL ESTIMATION (Cubic Yards): 80

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 1,000 ppm

SITE SKETCH

BGT Located: off / on site

PLOT PLAN circle: attached



X - S.P.D.

OVM CALIB. READ. = 51.4 ppm RF = 0.52

OVM CALIB. GAS = 100 ppm

TIME: 11:46 (am)/pm DATE: 01/29/16

MISCELL. NOTES

WO:

REF. #:

VID: VHIXONEVRM

PJ #:

Permit date(s): 06/02/10

OCD Appr. date(s): 10/19/15

Tank ID	OVM = Organic Vapor Meter ppm = parts per million
B	BGT Sidewalls Visible: Y / (N)
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N

Magnetic declination: 10° E

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.

NOTES: GOOGLE EARTH IMAGERY DATE: 3/15/2015. ONSITE: 01/26/16, 01/28/16, 01/29/16

CLIENT: BP

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

API #: 3004521881
TANK ID (if applicble): B

FIELD REPORT:

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / [OTHER:]
REMEDIATION

PAGE #: 3 of 3

SITE INFORMATION:

SITE NAME: VALENTINE GC # 1A

QUAD/UNIT: D SEC: 32 TWP: 32N RNG: 10W PM: NM CNTY: SJ ST: NM

1/4 -1/4/FOOTAGE: 1,180'N / 795'W NW/NW LEASE TYPE: FEDERAL / [STATE] / [FEE] / INDIAN

LEASE #: - PROD. FORMATION: MV CONTRACTOR: STRIKE MBF - C. PARKS

DATE STARTED: 02/02/16
DATE FINISHED:
ENVIRONMENTAL SPECIALIST(S): NJV

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.94558 X 107.91226 GL ELEV.: 6,104'

1)	21 BGT (SW/SB)	GPS COORD.: 36.946056 X 107.911940	DISTANCE/BEARING FROM W.H.: 181', N28E
2)		GPS COORD.:	DISTANCE/BEARING FROM W.H.:
3)		GPS COORD.:	DISTANCE/BEARING FROM W.H.:
4)		GPS COORD.:	DISTANCE/BEARING FROM W.H.:

SAMPLING DATA:

CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL

	SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:	OVM READING (ppm)
1)	3PC - SW @ 5' - 7'	02/02/16	1300	8015B/8021B	330
2)					
3)					
4)					
5)					

SOIL DESCRIPTION:

SOIL TYPE: [SAND] / [SILTY SAND] / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK (SANDSTONE)

SOIL COLOR: MOSTLY DARK YELLOWISH ORANGE (BEDROCK)

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / [HIGHLY COHESIVE]

CONSISTENCY ~~(NON COHESIVE SOILS)~~: LOOSE / FIRM / DENSE / [VERY DENSE]

MOISTURE: [DRY] / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED

SAMPLE TYPE: GRAB / [COMPOSITE] - # OF PTS. 3

DISCOLORATION/STAINING OBSERVED: [YES] / NO EXPLANATION - GRAYISH GREEN IN BOTTOM 2 FEET IN SW WALLS.

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

HC ODOR DETECTED: [YES] / NO EXPLANATION - OVM SAMPLE (from very hard bedrock (sandstone).

ANY AREAS DISPLAYING WETNESS: YES / [NO] EXPLANATION -

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: YES / [NO] EXPLANATION -

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : [YES] / NO EXPLANATION: BASED ON DISCOLORATION & OVM SAMPLE READING.

EQUIPMENT SET OVER RECLAIMED AREA: YES / [NO] EXPLANATION -

OTHER: ENTIRE EXCAVATION CONSISTED OF HARD TO VERY HARD, WELL CONSOILDATED, WELL CEMENTED BEDROCK SANDSTONE. COLLECTED SAMPLE BY SCRAPING SIDEWALL WITH GEOPICK HAMMER & SHOVEL.

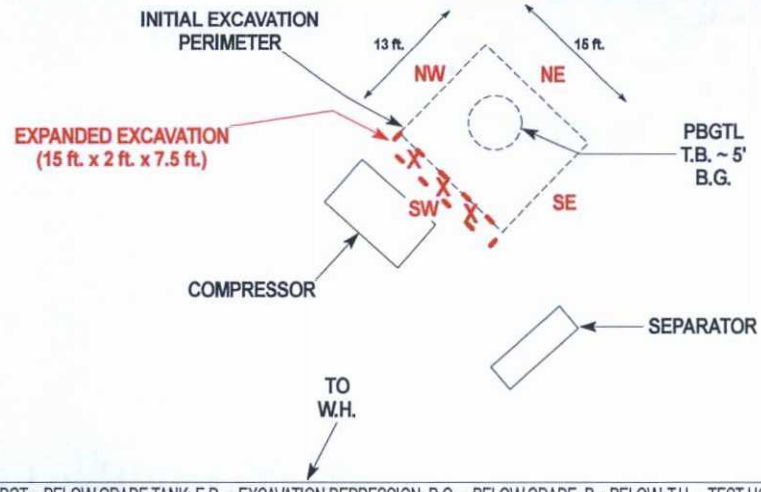
SOIL IMPACT DIMENSION ESTIMATION: 15 ft. X 15 ft. X 9.5 ft. IMPACTED SOIL ESTIMATION (Cubic Yards) : 88

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 1,000 ppm

SITE SKETCH

BGT Located : off / [on] site

PLOT PLAN circle: attached



OVM CALIB. READ. = 53.2 ppm RF =0.52
OVM CALIB. GAS = 100 ppm
TIME: 12:50 am/(pm) DATE: 02/16/16

MISCELL. NOTES

WO:
REF. #:
VID: VHIXONEVRM
PJ #:
Permit date(s): 06/02/10
OCD Appr. date(s): 10/19/15

Tank ID	OVM = Organic Vapor Meter ppm = parts per million
B	BGT Sidewalls Visible: Y / (N)
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N

Magnetic declination: 10° E

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.

NOTES: GOOGLE EARTH IMAGERY DATE: 3/15/2015. ONSITE: 01/26/16, 01/28/16, 01/29/16, 02/02/16

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Valentine GC # 1A
Lab ID: 1601990-001
Matrix: MEOH (SOIL)
Client Sample ID: TB @ 5' (21)
Collection Date: 1/26/2016 10:10:00 AM
Received Date: 1/27/2016 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	1/27/2016 1:38:35 PM	23436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	4500	100		mg/Kg	10	1/27/2016 12:07:56 PM	23425
Motor Oil Range Organics (MRO)	4400	500		mg/Kg	10	1/27/2016 12:07:56 PM	23425
Surr: DNOP	0	70-130	S	%REC	10	1/27/2016 12:07:56 PM	23425
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1500	31		mg/Kg	10	1/27/2016 10:46:13 AM	23405
Surr: BFB	631	66.2-112	S	%REC	10	1/27/2016 10:46:13 AM	23405
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	0.91	0.31		mg/Kg	10	1/27/2016 10:46:13 AM	23405
Toluene	29	0.31		mg/Kg	10	1/27/2016 10:46:13 AM	23405
Ethylbenzene	8.2	0.31		mg/Kg	10	1/27/2016 10:46:13 AM	23405
Xylenes, Total	180	3.1		mg/Kg	50	1/27/2016 11:33:26 AM	23405
Surr: 4-Bromofluorobenzene	168	80-120	S	%REC	10	1/27/2016 10:46:13 AM	23405

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Valentine GC # 1A
Lab ID: 1601989-002
Matrix: MEOH (SOIL)
Client Sample ID: 4PC - SW @ 4' - 5' (21)
Collection Date: 1/26/2016 12:00:00 PM
Received Date: 1/27/2016 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	1/27/2016 1:26:10 PM	23436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	3200	100		mg/Kg	10	1/27/2016 11:46:03 AM	23425
Surr: DNOP	0	70-130	S	%REC	10	1/27/2016 11:46:03 AM	23425
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1700	210		mg/Kg	50	1/27/2016 10:22:44 AM	23405
Surr: BFB	251	66.2-112	S	%REC	50	1/27/2016 10:22:44 AM	23405
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.1		mg/Kg	50	1/27/2016 10:22:44 AM	23405
Toluene	4.1	2.1		mg/Kg	50	1/27/2016 10:22:44 AM	23405
Ethylbenzene	4.8	2.1		mg/Kg	50	1/27/2016 10:22:44 AM	23405
Xylenes, Total	89	4.2		mg/Kg	50	1/27/2016 10:22:44 AM	23405
Surr: 4-Bromofluorobenzene	127	80-120	S	%REC	50	1/27/2016 10:22:44 AM	23405

Spill & Release Closure Standard Applied

Total TPH = 4,900 mg/Kg; **closure standard = 1,000 mg/Kg**
Benzene = ND mg/Kg; **closure standard = 10 mg/Kg**
Total BTEX = 97.9 mg/Kg; **closure standard = 50 mg/Kg**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1601989**
Date Reported: **1/28/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Valentine GC # 1A
Lab ID: 1601989-001
Matrix: MEOH (SOIL)
Client Sample ID: TB(A) @ 6' (21)
Collection Date: 1/26/2016 10:45:00 AM
Received Date: 1/27/2016 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	ND	30		mg/Kg	20	1/27/2016 1:13:46 PM	23436
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	3200	98		mg/Kg	10	1/27/2016 11:24:13 AM	23425
Surr: DNOP	0	70-130	S	%REC	10	1/27/2016 11:24:13 AM	23425
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	910	210		mg/Kg	50	1/27/2016 9:59:19 AM	23405
Surr: BFB	190	66.2-112	S	%REC	50	1/27/2016 9:59:19 AM	23405
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		mg/Kg	50	1/27/2016 9:59:19 AM	23405
Toluene	ND	2.1		mg/Kg	50	1/27/2016 9:59:19 AM	23405
Ethylbenzene	4.3	2.1		mg/Kg	50	1/27/2016 9:59:19 AM	23405
Xylenes, Total	58	4.1		mg/Kg	50	1/27/2016 9:59:19 AM	23405
Surr: 4-Bromofluorobenzene	117	80-120		%REC	50	1/27/2016 9:59:19 AM	23405

Spill & Release Closure Standard Applied

Total TPH = 4,110 mg/Kg; **closure standard = 1,000 mg/Kg**
Benzene = ND mg/Kg; **closure standard = 10 mg/Kg**
Total BTEX = 62.3 mg/Kg; **closure standard = 50 mg/Kg**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

Analytical Report
Lab Order **1601B45**
Date Reported: **2/2/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Valentine GC # 1A
Lab ID: 1601B45-001 **Matrix:** MEOH (SOIL)

Client Sample ID: 3PC-NE@5.5'-7.5'
Collection Date: 1/29/2016 11:15:00 AM
Received Date: 1/30/2016 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	73	9.8		mg/Kg	1	2/1/2016 10:25:17 AM	23497
Motor Oil Range Organics (MRO)	59	49		mg/Kg	1	2/1/2016 10:25:17 AM	23497
Surr: DNOP	87.0	70-130		%Rec	1	2/1/2016 10:25:17 AM	23497
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	8.8	4.2		mg/Kg	1	2/1/2016 11:14:07 AM	A31828
Surr: BFB	160	66.2-112	S	%Rec	1	2/1/2016 11:14:07 AM	A31828
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.042		mg/Kg	1	2/1/2016 11:14:07 AM	B31828
Toluene	ND	0.042		mg/Kg	1	2/1/2016 11:14:07 AM	B31828
Ethylbenzene	ND	0.042		mg/Kg	1	2/1/2016 11:14:07 AM	B31828
Xylenes, Total	0.36	0.084		mg/Kg	1	2/1/2016 11:14:07 AM	B31828
Surr: 4-Bromofluorobenzene	127	80-120	S	%Rec	1	2/1/2016 11:14:07 AM	B31828

Total TPH = 140.8 mg/Kg;

Down gradient sidewall

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Valentine GC # 1A
Lab ID: 1601B45-002 **Matrix:** MEOH (SOIL)

Client Sample ID: 3PC-SE@5.5'-7.5'
Collection Date: 1/29/2016 11:20:00 AM
Received Date: 1/30/2016 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	590	9.8		mg/Kg	1	2/1/2016 10:53:09 AM	23497
Motor Oil Range Organics (MRO)	420	49		mg/Kg	1	2/1/2016 10:53:09 AM	23497
Surr: DNOP	96.6	70-130		%Rec	1	2/1/2016 10:53:09 AM	23497
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	110	4.0		mg/Kg	1	2/1/2016 11:38:46 AM	A31828
Surr: BFB	382	66.2-112	S	%Rec	1	2/1/2016 11:38:46 AM	A31828
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.040		mg/Kg	1	2/1/2016 11:38:46 AM	B31828
Toluene	ND	0.040		mg/Kg	1	2/1/2016 11:38:46 AM	B31828
Ethylbenzene	0.55	0.040		mg/Kg	1	2/1/2016 11:38:46 AM	B31828
Xylenes, Total	5.6	0.079		mg/Kg	1	2/1/2016 11:38:46 AM	B31828
Surr: 4-Bromofluorobenzene	168	80-120	S	%Rec	1	2/1/2016 11:38:46 AM	B31828

Total TPH = 1,120 mg/Kg

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Valentine GC # 1A
Lab ID: 1601B45-004 **Matrix:** MEOH (SOIL)

Client Sample ID: 3PC-NW@5'-7'
Collection Date: 1/29/2016 11:28:00 AM
Received Date: 1/30/2016 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	360	9.6		mg/Kg	1	2/1/2016 11:48:31 AM	23497
Motor Oil Range Organics (MRO)	200	48		mg/Kg	1	2/1/2016 11:48:31 AM	23497
Surr: DNOP	90.6	70-130		%Rec	1	2/1/2016 11:48:31 AM	23497
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	280	43		mg/Kg	10	2/1/2016 1:41:41 PM	A31828
Surr: BFB	274	66.2-112	S	%Rec	10	2/1/2016 1:41:41 PM	A31828
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.043		mg/Kg	1	2/1/2016 12:27:59 PM	B31828
Toluene	0.56	0.043		mg/Kg	1	2/1/2016 12:27:59 PM	B31828
Ethylbenzene	1.4	0.043		mg/Kg	1	2/1/2016 12:27:59 PM	B31828
Xylenes, Total	14	0.85		mg/Kg	10	2/1/2016 1:41:41 PM	B31828
Surr: 4-Bromofluorobenzene	299	80-120	S	%Rec	1	2/1/2016 12:27:59 PM	B31828

Total TPH = 840 mg/Kg

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Valentine GC # 1A
Lab ID: 1601B45-003
Matrix: MEOH (SOIL)
Client Sample ID: 3PC-SW@5'-7'
Collection Date: 1/29/2016 11:25:00 AM
Received Date: 1/30/2016 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	1100	100		mg/Kg	10	2/1/2016 12:48:24 PM	23497
Motor Oil Range Organics (MRO)	900	510		mg/Kg	10	2/1/2016 12:48:24 PM	23497
Surr: DNOP	0	70-130	S	%Rec	10	2/1/2016 12:48:24 PM	23497
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	430	39		mg/Kg	10	2/1/2016 1:17:08 PM	A31828
Surr: BFB	425	66.2-112	S	%Rec	10	2/1/2016 1:17:08 PM	A31828
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.039		mg/Kg	1	2/1/2016 12:03:23 PM	B31828
Toluene	0.18	0.039		mg/Kg	1	2/1/2016 12:03:23 PM	B31828
Ethylbenzene	1.6	0.039		mg/Kg	1	2/1/2016 12:03:23 PM	B31828
Xylenes, Total	26	0.77		mg/Kg	10	2/1/2016 1:17:08 PM	B31828
Surr: 4-Bromofluorobenzene	473	80-120	S	%Rec	1	2/1/2016 12:03:23 PM	B31828

Total TPH = 2,430 mg/Kg

Up gradient sidewall

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report
Lab Order **1602067**
Date Reported: **2/4/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: VALENTINE GC #1A
Lab ID: 1602067-001 **Matrix:** SOIL

Client Sample ID: 3PC-SW2 @ 5'-7'
Collection Date: 2/2/2016 1:00:00 PM
Received Date: 2/3/2016 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	320	10		mg/Kg	1	2/3/2016 9:56:36 AM	23551
Motor Oil Range Organics (MRO)	240	50		mg/Kg	1	2/3/2016 9:56:36 AM	23551
Surr: DNOP	106	70-130		%Rec	1	2/3/2016 9:56:36 AM	23551
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	62	8.1		mg/Kg	2	2/3/2016 10:56:25 AM	23523
Surr: BFB	311	66.2-112	S	%Rec	2	2/3/2016 10:56:25 AM	23523
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.041		mg/Kg	2	2/3/2016 10:56:25 AM	23523
Toluene	ND	0.081		mg/Kg	2	2/3/2016 10:56:25 AM	23523
Ethylbenzene	0.13	0.081		mg/Kg	2	2/3/2016 10:56:25 AM	23523
Xylenes, Total	1.3	0.16		mg/Kg	2	2/3/2016 10:56:25 AM	23523
Surr: 4-Bromofluorobenzene	121	80-120	S	%Rec	2	2/3/2016 10:56:25 AM	23523

Total TPH = 622 mg/Kg

Up gradient sidewall

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Valentine GC # 1A
Lab ID: 1601B45-005
Matrix: MEOH (SOIL)
Client Sample ID: 5PC-EB@9.5'
Collection Date: 1/29/2016 11:35:00 AM
Received Date: 1/30/2016 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	130	9.5		mg/Kg	1	2/1/2016 12:20:50 PM	23497
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	2/1/2016 12:20:50 PM	23497
Surr: DNOP	84.8	70-130		%Rec	1	2/1/2016 12:20:50 PM	23497
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	19	4.0		mg/Kg	1	2/1/2016 12:52:35 PM	A31828
Surr: BFB	230	66.2-112	S	%Rec	1	2/1/2016 12:52:35 PM	A31828
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.040		mg/Kg	1	2/1/2016 12:52:35 PM	B31828
Toluene	ND	0.040		mg/Kg	1	2/1/2016 12:52:35 PM	B31828
Ethylbenzene	0.096	0.040		mg/Kg	1	2/1/2016 12:52:35 PM	B31828
Xylenes, Total	0.99	0.081		mg/Kg	1	2/1/2016 12:52:35 PM	B31828
Surr: 4-Bromofluorobenzene	128	80-120	S	%Rec	1	2/1/2016 12:52:35 PM	B31828

Total TPH = 269 mg/Kg

Excavation Bottom

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Phone #: (505) 632-1199

Email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush SAME DAY

Project Name:
VALENTINE GC # 1A

Project #:

Project Manager:
NELSON VELEZ

Sampler: NELSON VELEZ NV

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 160190	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water - 300.1)		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
1/26/16	1010	SOIL	TB @ 5' (21)	4 oz. - 1	Cool	-001	√		√									√		√		

Date	Time	Relinquished by:	Received by:	Date	Time
1/26/16	1621			1/26/16	1621
1/26/16	1754			01/27/16	0800

Remarks:
BILL DIRECTLY TO BP:
Steve Moskal, 200 Energy Court, Farmington, NM 87401
Reference #: P-76 Paykey: VHIXONEVB2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client:	BLAGG ENGR. / BP AMERICA
Mailing Address:	P.O. BOX 87
	BLOOMFIELD, NM 87413
Phone #:	(505) 632-1199
email or Fax#:	
QA/QC Package:	☑ Standard ☐ Level 4 (Full Validation)
Accreditation:	☐ NELAP ☐ Other
	☐ EDD (Type)

Turn-Around Time: ☐ Standard ☑ Rush SAME DAY

Project Name: VALENTINE GC # 1A

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1601989	BTEX + ~~MTBE~~ + ~~TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water - 300.1)		Grab sample	4 pt. composite sample	Air Bubbles (Y or N)
1/26/16	1045	SOIL	TB(A) @ 6' (21)	4 oz. - 1	Cool	-001	✓		✓									✓		✓		
1/26/16	1200	SOIL	4PC - SW @ 4' - 5' (21)	4 oz. - 1	Cool	-002	✓		✓									✓			✓	

Date	Time	Relinquished by	Received by	Date	Time
1/26/16	1621			1621	1621
1/26/16	1754			01/27/16	0820

Remarks:

BILL DIRECTLY TO BP:
Steve Moskal, 200 Energy Court, Farmington, NM 87401

Reference #: P-76 Paykey: VHIXONEVB2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Phone #: (505) 326-3489

Email or Fax#: NELSON, JEFF, & STEVE M.

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
NELAP ☐ Other _____

EDD (Type) _____

Turn-Around Time: BY MONDAY
☐ Standard ☒ Rush 2/1/16

Project Name: VALENTINE GC #1A

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1601134/5	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	# COMPOSITE POINTS	Air Bubbles (Y or N)
1/29/16	1115	SOIL	3PC-NE @ 5.5'-7.5'	4oz.-1	COOL	-001	✓		✓									3	
1/29/16	1120	SOIL	3PC-SE @ 5.5'-7.5'	4oz.-1	COOL	-002	✓		✓									3	
1/29/16	1125	SOIL	3PC-SW @ 5'-7'	4oz.-1	COOL	-003	✓		✓									3	
1/29/16	1128	SOIL	3PC-NW @ 5'-7'	4oz.-1	COOL	-004	✓		✓									3	
1/26/16	1135	SOIL	5PC-EB @ 9.5'	4oz.-1	COOL	-005	✓		✓									5	

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/29/16	1614			1/29/16	1614
1/30/16	1746			01/30/16	0915

Remarks: PAYKEY: VHIXONEVRM
CONTACT: STEVE MOSKAL (BP)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Client: BLAGG ENER. / BP AMERICA
Mailing Address: P.O. BOX 87
BLOOMFIELD NM 87413
Phone #: (505) 320-3489
Email or Fax#: NELSON, JEFF, & STEVE M.
QA/QC Package: ☑ Standard ☐ Level 4 (Full Validation)
Accreditation: NELAP ☐ Other
EDD (Type)

Turn-Around Time: ☐ Standard ☒ Rush SAME DAY
Project Name: VALENTINE GC #4A
Project #:
Project Manager: NELSON VELEZ
Sampler: NELSON VELEZ
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.6

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1402067	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			3 PT. COMPOSITE		Air Bubbles (Y or N)
2/1/16	1300	SOIL	3PC-SW2C5-7'	4oz.-1	COOL	-001	✓		✓											✓		

Date:	Time:	Relinquished by:	Received by:	Date	Time
2/1/16	1415			2/2/16	1415
2/1/16	1731			02/02/16	0700

Remarks: PAYKEY: VHIXONEURM
CONTACT: STEVE MOSKAL (BP)

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1601990**

28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

Sample ID	**MB-23436**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**23436**		RunNo:	**31736**				
Prep Date:	**1/27/2016**	Analysis Date:	**1/27/2016**		SeqNo:	**971237**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-23436**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**23436**		RunNo:	**31736**				
Prep Date:	**1/27/2016**	Analysis Date:	**1/27/2016**		SeqNo:	**971238**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1601990**

28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

Sample ID **MB-23425**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **23425**	RunNo: **31683**
Prep Date: **1/27/2016**	Analysis Date: **1/27/2016**	SeqNo: **970283** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		107	70	130			

Sample ID **LCS-23425**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **23425**	RunNo: **31683**
Prep Date: **1/27/2016**	Analysis Date: **1/27/2016**	SeqNo: **970284** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.0	65.8	136			
Surr: DNOP	4.9		5.000		98.9	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1601990**

28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

Sample ID **MB-23405**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **23405**	RunNo: **31708**
Prep Date: **1/26/2016**	Analysis Date: **1/27/2016**	SeqNo: **970902** 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	930		1000		93.2	66.2	112			

Sample ID **LCS-23405**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **23405**	RunNo: **31708**
Prep Date: **1/26/2016**	Analysis Date: **1/27/2016**	SeqNo: **970903** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.9	79.6	122			
Surr: BFB	1000		1000		102	66.2	112			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1601990**

28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

Sample ID **MB-23405**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **23405**	RunNo: **31708**
Prep Date: **1/26/2016**	Analysis Date: **1/27/2016**	SeqNo: **970927** 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								
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Sample ID **LCS-23405**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **23405**	RunNo: **31708**
Prep Date: **1/26/2016**	Analysis Date: **1/27/2016**	SeqNo: **970928** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.4	0.10	3.000	0	114	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		121	80	120			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1601989**

28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

Sample ID	**MB-23436**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**23436**		RunNo:	**31736**				
Prep Date:	**1/27/2016**	Analysis Date:	**1/27/2016**		SeqNo:	**971237**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-23436**	SampType:	**LCS**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**23436**		RunNo:	**31736**				
Prep Date:	**1/27/2016**	Analysis Date:	**1/27/2016**		SeqNo:	**971238**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.5	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1601989**

28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

Sample ID **MB-23425**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **23425**	RunNo: **31683**
Prep Date: **1/27/2016**	Analysis Date: **1/27/2016**	SeqNo: **970283** 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	11		10.00		107	70	130			

Sample ID **LCS-23425**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **23425**	RunNo: **31683**
Prep Date: **1/27/2016**	Analysis Date: **1/27/2016**	SeqNo: **970284** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.0	65.8	136			
Surr: DNOP	4.9		5.000		98.9	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1601989**

28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

Sample ID **MB-23405**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **PBS**	Batch ID: **23405**			RunNo: **31708**					
Prep Date: **1/26/2016**	Analysis Date: **1/27/2016**			SeqNo: **970902**		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	930		1000		93.2	66.2	112			

Sample ID **LCS-23405**	SampType: **LCS**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID: **LCSS**	Batch ID: **23405**			RunNo: **31708**					
Prep Date: **1/26/2016**	Analysis Date: **1/27/2016**			SeqNo: **970903**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.9	79.6	122			
Surr: BFB	1000		1000		102	66.2	112			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1601989**

28-Jan-16

Client: Blagg Engineering
Project: Valentine GC # 1A

Sample ID **MB-23405**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **23405**	RunNo: **31708**
Prep Date: **1/26/2016**	Analysis Date: **1/27/2016**	SeqNo: **970927** 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								
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Sample ID **LCS-23405**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **23405**	RunNo: **31708**
Prep Date: **1/26/2016**	Analysis Date: **1/27/2016**	SeqNo: **970928** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.4	0.10	3.000	0	114	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		121	80	120			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG | Work Order Number: 1601969 | RcptNo: 1

Received by/date: 01/27/16

Logged By: Lindsay Mangin 1/27/2016 8:00:00 AM

Completed By: Lindsay Mangin 1/27/2016 8:12:52 AM

Reviewed By: 01/27/16

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1601B45**

02-Feb-16

Client: Blagg Engineering

Project: Valentine GC # 1A

Sample ID **MB-23497**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **23497**	RunNo: **31813**
Prep Date: **2/1/2016**	Analysis Date: **2/1/2016**	SeqNo: **973617** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.6		10.00		76.4	70	130			

Sample ID **LCS-23497**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **23497**	RunNo: **31813**
Prep Date: **2/1/2016**	Analysis Date: **2/1/2016**	SeqNo: **973618** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.4	65.8	136			
Surr: DNOP	3.8		5.000		76.6	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1601B45**

02-Feb-16

Client: Blagg Engineering

Project: Valentine GC # 1A

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **A31828**	RunNo: **31828**
Prep Date:	Analysis Date: **2/1/2016**	SeqNo: **974181** 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	850		1000		85.5	66.2	112			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **A31828**	RunNo: **31828**
Prep Date:	Analysis Date: **2/1/2016**	SeqNo: **974182** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.8	79.6	122			
Surr: BFB	970		1000		97.4	66.2	112			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1601B45**

02-Feb-16

Client: Blagg Engineering
Project: Valentine GC # 1A

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B31828**	RunNo: **31828**
Prep Date:	Analysis Date: **2/1/2016**	SeqNo: **974187** 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								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B31828**	RunNo: **31828**
Prep Date:	Analysis Date: **2/1/2016**	SeqNo: **974188** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	93.3	80	120			
Toluene	0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.0	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		115	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: **1601B45** RcptNo: **1**

Received by/date: 01/30/16

Logged By: **Lindsay Mangin** **1/30/2016 9:15:00 AM**

Completed By: **Lindsay Mangin** **1/30/2016 9:51:40 AM**

Reviewed By: dam 1/30/16

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1602067**

04-Feb-16

Client: Blagg Engineering
Project: VALENTINE GC #1A

Sample ID **MB-23551**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **23551**	RunNo: **31874**
Prep Date: **2/3/2016**	Analysis Date: **2/3/2016**	SeqNo: **975374** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.0	70	130			

Sample ID **LCS-23551**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **23551**	RunNo: **31874**
Prep Date: **2/3/2016**	Analysis Date: **2/3/2016**	SeqNo: **975375** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.0	65.8	136			
Surr: DNOP	4.8		5.000		95.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1602067**

04-Feb-16

Client: Blagg Engineering
Project: VALENTINE GC #1A

Sample ID **MB-23523**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **23523**	RunNo: **31884**
Prep Date: **2/2/2016**	Analysis Date: **2/3/2016**	SeqNo: **975769** 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	890		1000		89.4	66.2	112			

Sample ID **LCS-23523**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **23523**	RunNo: **31884**
Prep Date: **2/2/2016**	Analysis Date: **2/3/2016**	SeqNo: **975770** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.4	79.6	122			
Surr: BFB	990		1000		99.5	66.2	112			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1602067**

04-Feb-16

Client: Blagg Engineering
Project: VALENTINE GC #1A

Sample ID **MB-23523**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **23523**	RunNo: **31884**
Prep Date: **2/2/2016**	Analysis Date: **2/3/2016**	SeqNo: **975781** 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								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID **LCS-23523**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **23523**	RunNo: **31884**
Prep Date: **2/2/2016**	Analysis Date: **2/3/2016**	SeqNo: **975782** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	108	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		120	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG | Work Order Number: 1602067 | RcptNo: 1

Received by/date: AT 02/03/16

Logged By: Anne Thorne 2/3/2016 7:00:00 AM Anne Thorne

Completed By: Anne Thorne 2/3/2016 Anne Thorne

Reviewed By: 2/3/16

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

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

Oil Conservation Div[redacted]
1220 South St. Franci[redacted]
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
BP America Production Co. 200 Energy Ct. Farmington, NM 87401

2. **Originating Site:**
Valentine GC 001A
Paykey: VHIXONEVRM

3. **Location of Material (Street Address, City, State or ULSTR):**
QRT/QRT: NW/NW Unit: D Section: 32 T32N R10W

4. **Source and Description of Waste:** Hydrocarbon impacted soils.

2/10/16 - 12 cy
1/30/16 - 30 cy

Estimated Volume 60 yd³ / bbls Known Volume (to be entered by the operator at the end of the haul) 53 yd³ / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Steve Moskal, representative or authorized agent for BP America Production Company do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☒ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

Steve Moskal, representative for BP America Production Company authorize IEI to complete the required testing/sign the Generator Waste Testing Certification.

I, [redacted], representative for IEI do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter:**
Strike

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Industrial Ecosystems Inc., JFJ Waste Management Facility (JFJ), Permit NM-01-0010B

Address of Facility: #49 CR 3150 Aztec, NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

ste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Tamera Bryan TITLE: Clerk DATE: 1-29-16

SIGNATURE: [redacted] TELEPHONE NO.: 505-632-1782

Surface Waste Management Facility Authorized Agent

1/29/16