

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

13151

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

OIL CONS. DIV DIST. 3

OCT 14 2015

415-23047

**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: Nye LS 1A  
API Number: 3004523047 OCD Permit Number: \_\_\_\_\_  
U/L or Qtr/Qtr O Section 23 Township 31N Range 11W County: San Juan  
Center of Proposed Design: Latitude 36.879737 Longitude -107.956286 NAD: ☐ 1927 ☒ 983  
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 A  
Volume: 95.0 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 bottomed  
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.**

- ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells

☐ Yes ☐ No  
☐ NA

**Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.**

NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells

☐ Yes ☐ No  
☐ NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (**Does not apply to below grade tanks**)

- Written confirmation or verification from the municipality; Written approval obtained from the municipality

☐ Yes ☐ No

Within the area overlying a subsurface mine. (**Does not apply to below grade tanks**)

- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division

☐ Yes ☐ No

Within an unstable area. (**Does not apply to below grade tanks**)

- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map

☐ Yes ☐ No

Within a 100-year floodplain. (**Does not apply to below grade tanks**)

- FEMA map

☐ Yes ☐ No

**Below Grade Tanks**

Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.

- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site

☐ Yes ☐ No

**Temporary Pit using Low Chloride Drilling Fluid** (maximum chloride content 15,000 mg/liter)

Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)

- Topographic map; Visual inspection (certification) of the proposed site

☐ Yes ☐ No



Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial 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<sub>2</sub>S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of 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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> 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	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100-year floodplain. - FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> 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.*

<input type="checkbox"/>	Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
<input type="checkbox"/>	Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
<input type="checkbox"/>	Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
<input type="checkbox"/>	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
<input type="checkbox"/>	Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
<input type="checkbox"/>	Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
<input type="checkbox"/>	Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
<input type="checkbox"/>	Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
<input type="checkbox"/>	Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
<input type="checkbox"/>	Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
<input type="checkbox"/>	Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

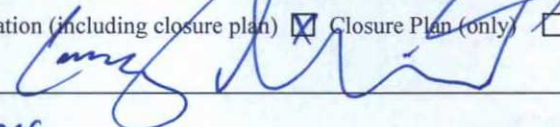
17.  
**Operator Application Certification:**  
 I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

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: 11/17/15

Title: Environmental Spec 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: 10/10/2012

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.*

<input type="checkbox"/>	Proof of Closure Notice (surface owner and division)
<input type="checkbox"/>	Proof of Deed Notice (required for on-site closure for private land only)
<input type="checkbox"/>	Plot Plan (for on-site closures and temporary pits)
<input checked="" type="checkbox"/>	Confirmation Sampling Analytical Results (if applicable)
<input type="checkbox"/>	Waste Material Sampling Analytical Results (required for on-site closure)
<input checked="" type="checkbox"/>	Disposal Facility Name and Permit Number
<input checked="" type="checkbox"/>	Soil Backfilling and Cover Installation
<input type="checkbox"/>	Re-vegetation Application Rates and Seeding Technique
<input checked="" type="checkbox"/>	Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude 36.879737 Longitude -107.956286 NAD: ☐ 1927 ☒ 1983



**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: October 8, 2015

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

Nye LS 1A

API No. 3004523047

Unit Letter O, Section 23, T31N, R11W

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 approved BGT Design attached to the BP Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BP shall close the permitted BGT within 60 days of cessation of the BGTs operation or as required by the transitional provisions of Subsection B, D, or E of 19.15.17.17 NMAC.

**General Closure Plan**

1. BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement.  
**No notice was made due to misunderstanding of the BGT notice requirements at that time.**
2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.  
**No notice was made due to misunderstanding of the BGT notice requirements at that time.**
3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
  - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
  - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
  - c. Basin Disposal, Permit NM-01-0005 (Liquids)



- d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
- e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

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

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

**The BGT was transported to a storage area for sale and re-use.**

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

**All equipment associated with the BGT has been removed.**

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

Constituents	Testing Method <b>95 bbl BGT</b>	Release Verification (mg/Kg)	Sample results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	N/A
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	N/A
TPH	US EPA Method SW-846 418.1	100	N/A
Chlorides	US EPA Method 300.0 or 4500B	250 or background	N/A

**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 not sampled due the bottom of the BGT in groundwater. Groundwater was sampled and BTEX and chloride values were below standards. Sampling data are attached.**



7. BP shall notify the division District III office of its results on form C-141.  
**C-141 is attached.**
8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.  
**Sampling results indicate no release occurred.**
9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not within the active process area  
**The area under the BGT was backfilled with clean soil and is still within the active well area.**
10. BP shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BP shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.  
**The area over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.**
11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and all practicable efforts will be made to prevent ponding of water and erosion of the cover material.  
**The area over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.**
12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.  
**The area over the BGT is still within the active well area. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.**
13. BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.



**BP will seed the area as part of final reclamation when the well is 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.**

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: Jeff Peace	
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479	
Facility Name: Nye LS 1A	Facility Type: Natural gas well	
Surface Owner: Private	Mineral Owner: Private	API No. 3004523047

**LOCATION OF RELEASE**

Unit Letter O	Section 23	Township 31N	Range 11W	Feet from the 1,080	North/South Line South	Feet from the 1,590	East/West Line East	County: San Juan
------------------	---------------	-----------------	--------------	------------------------	---------------------------	------------------------	------------------------	------------------

Latitude 36.879737 Longitude -107.956286

**NATURE OF RELEASE**

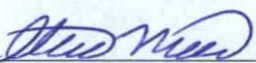
Type of Release: none	Volume of Release: N/A	Volume Recovered: N/A
Source of Release: below grade tank – 95 bbl	Date and Hour of Occurrence:	Date and Hour of Discovery:
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 not done during removal since the bottom of the BGT was in groundwater. Ggroundwater samples were taken from below the BGT and from monitoring wells located on site and the analysis resulted in BTEX below standards. Analysis results are attached.

Describe Area Affected and Cleanup Action Taken.\* BGT was removed and the water underneath the BGT was sampled. The area under the BGT was backfilled and compacted and is still within the active well area.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability 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: 	<b>OIL CONSERVATION DIVISION</b>		
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 <input type="checkbox"/>
Date: October 8, 2015	Phone: 505-326-9499		

\* Attach Additional Sheets If Necessary



CLIENT: <b>BP</b>	<b>BLAGG ENGINEERING, INC.</b> <b>P.O. BOX 87, BLOOMFIELD, NM 87413</b> <b>(505) 632-1199</b>	API #: <b>3004523047</b> TANK ID (if applicable): <b>A</b>
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<b>FIELD REPORT:</b> (circle one): <b>BGT CONFIRMATION</b> RELEASE INVESTIGATION / OTHER:	PAGE #: <b>1</b> of <b>1</b>
---	------------------------------

<b>SITE INFORMATION:</b> SITE NAME: <b>NYE LS # 1A</b> QUAD/UNIT: <b>O</b> SEC: <b>23</b> TWP: <b>31N</b> RNG: <b>11W</b> PM: <b>NM</b> CNTY: <b>SJ</b> ST: <b>NM</b> 1/4 - 1/4 FOOTAGE: <b>1,080'S / 1,590'E</b> <b>SW/SE</b> LEASE TYPE: <b>FEDERAL / STATE</b> <b>FEE</b> INDIAN LEASE #: <b>-</b> PROD. FORMATION: <b>MV</b> CONTRACTOR: <b>ELKHORN MBF - J. YEOMANS</b>	DATE STARTED: <b>05/17/12</b> DATE FINISHED: ENVIRONMENTAL SPECIALIST(S): <b>JCB</b>
--	--

<b>REFERENCE POINT:</b>	WELL HEAD (W.H.) GPS COORD.: <b>36.87980 X 107.95661</b> GL ELEV.: <b>5,689'</b> 1) <b>95 BGT (SW/SB)</b> GPS COORD.: <b>36.879737 X 107.956286</b> DISTANCE/BEARING FROM W.H.: <b>102', S75E</b> 2) GPS COORD.: DISTANCE/BEARING FROM W.H.: 3) GPS COORD.: DISTANCE/BEARING FROM W.H.: 4) GPS COORD.: DISTANCE/BEARING FROM W.H.:
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<b>SAMPLING DATA:</b>	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: <b>HALL</b> 1) SAMPLE ID: <b>GW @ 3' (95 BGT)</b> SAMPLE DATE: <b>05/17/12</b> SAMPLE TIME: <b>0950</b> LAB ANALYSIS: <b>8021B / 300.0 (CI)</b> 2) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 3) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 4) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:	OVM READING (ppm) <b>NA</b>
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<b>SOIL DESCRIPTION:</b> SOIL TYPE: <b>SAND</b> SILTY SAND / SILT <b>SILTY CLAY</b> CLAY <b>GRAVEL</b> OTHER SOIL COLOR: <b>MODERATE BROWN</b> COHESION (ALL OTHERS): <b>NON COHESIVE</b> SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <b>LOOSE</b> <b>FIRM</b> DENSE / VERY DENSE MOISTURE: DRY <b>SLIGHTLY MOIST</b> MOIST <b>WET</b> SATURATED SUPER SATURATED SAMPLE TYPE: <b>GRAB</b> COMPOSITE - # OF PTS. <b>NA</b> DISCOLORATION/STAINING OBSERVED: YES <b>NO</b> EXPLANATION -	PLASTICITY (CLAYS): NON PLASTIC <b>SLIGHTLY PLASTIC</b> <b>COHESIVE</b> MEDIUM PLASTIC / HIGHLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SOFT <b>FIRM</b> <b>STIFF</b> VERY STIFF / HARD HC ODOR DETECTED: YES <b>NO</b> EXPLANATION - ANY AREAS DISPLAYING WETNESS: <b>YES</b> NO EXPLANATION - <b>BOTTOM OF DEPRESSION IN GROUNDWATER (~3.5' - 4' BELOW GRADE).</b> APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: Y <b>N</b> EXPLANATION: ADDITIONAL COMMENTS: <b>BGT WAS LOW / SHALLOW PROFILE, 15' IN DIAMETER. COLLECTED GROUNDWATER SAMPLE BENEATH BGT ONLY.</b> EXCAVATION DIMENSIONS (if applicable): <b>NA</b> ft. X <b>NA</b> ft. X <b>NA</b> ft. cubic yards excavated (if applicable): <b>NA</b> DEPTH TO GROUNDWATER: <b>&lt;50'</b> NEAREST WATER SOURCE: <b>&gt;1,000'</b> NEAREST SURFACE WATER: <b>&lt;1,000'</b> NMOC DTPH CLOSURE STD: <b>100</b> PPM
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<b>SITE SKETCH</b> 	PLOT PLAN circle: attached OVM CALIB. READ. = <b>NA</b> ppm RF = 0.52 OVM CALIB. GAS = <b>NA</b> ppm TIME: <b>NA</b> am/pm DATE: <b>NA</b> <b>MISCELL. NOTES</b> WO: <b>N1515778</b> PO #: <b>71641</b> PK: <b>ZBLACATIMC</b> PJ #: Permit date(s): <b>06/14/10</b> OCD Appr. date(s): <b>05/10/11</b> Tank ID: <b>A</b> BGT Sidewalls Visible: <b>(Y) / N</b> BGT Sidewalls Visible: <b>Y / N</b> BGT Sidewalls Visible: <b>Y / N</b> Magnetic declination: <b>10° E</b>
------------------------	--

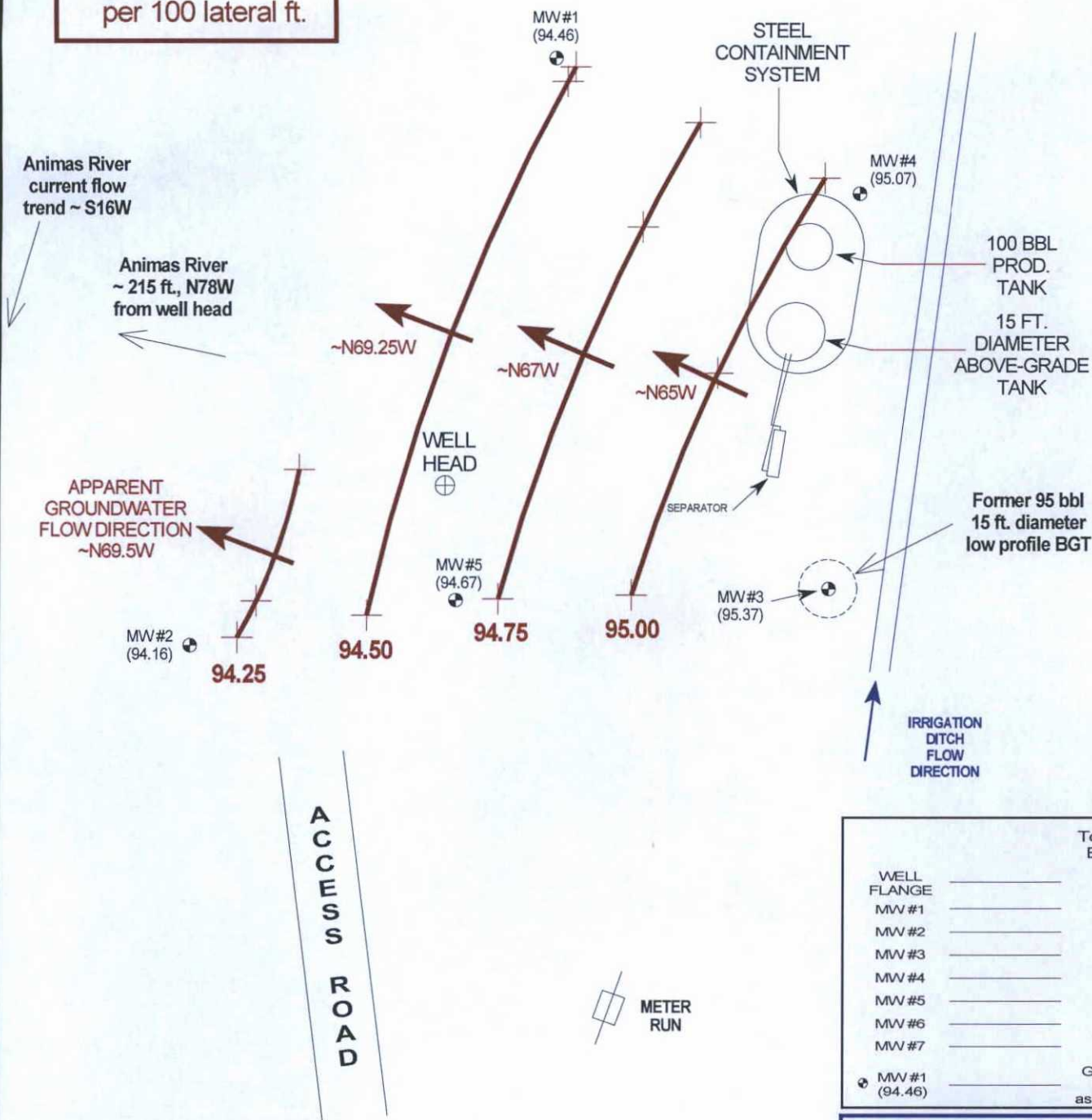
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.	TRAVEL NOTES: CALLOUT: ONSITE: <b>05/17/12</b>
---	--



**FIGURE 2**  
**(3rd 1/4, 2013)**



gradient ~0.75 ft.  
per 100 lateral ft.



	Top of Well Elevation
WELL FLANGE	(100.00)
MW #1	(101.64)
MW #2	(100.26)
MW #3	(101.37)
MW #4	(101.47)
MW #5	(101.56)
MW #6	0
MW #7	0
MW #1 (94.46)	Groundwater Elevation as of 07/31/13.

MONITOR WELL, AGT & PRODUCTION TANK LOCATIONS  
ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED  
IN OBTAINING THE FOOTAGE & BEARING FROM THE  
WELL HEAD (TAPE MEASURE & BRUNTON COMPASS).  
ALL OTHER STRUCTURES DISPLAYED ON THIS MAP  
ARE SOLELY FOR REFERENCE AND MAY NOT BE TO  
SCALE. MAGNETIC DECLINATION USED ~ 10° E

0 40 80 FT.

BP AMERICA PRODUCTION COMPANY

NYE LS #1A

SW/4 SE/4 SEC. 23, T31N, R11W

SAN JUAN COUNTY, NEW MEXICO

**BLAGG ENGINEERING, INC.**

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW INSTALLATIONS

DRAWN BY: NJV

FILENAME: 07-31-13-GW.SKF

DRAFTED: 07-31-13

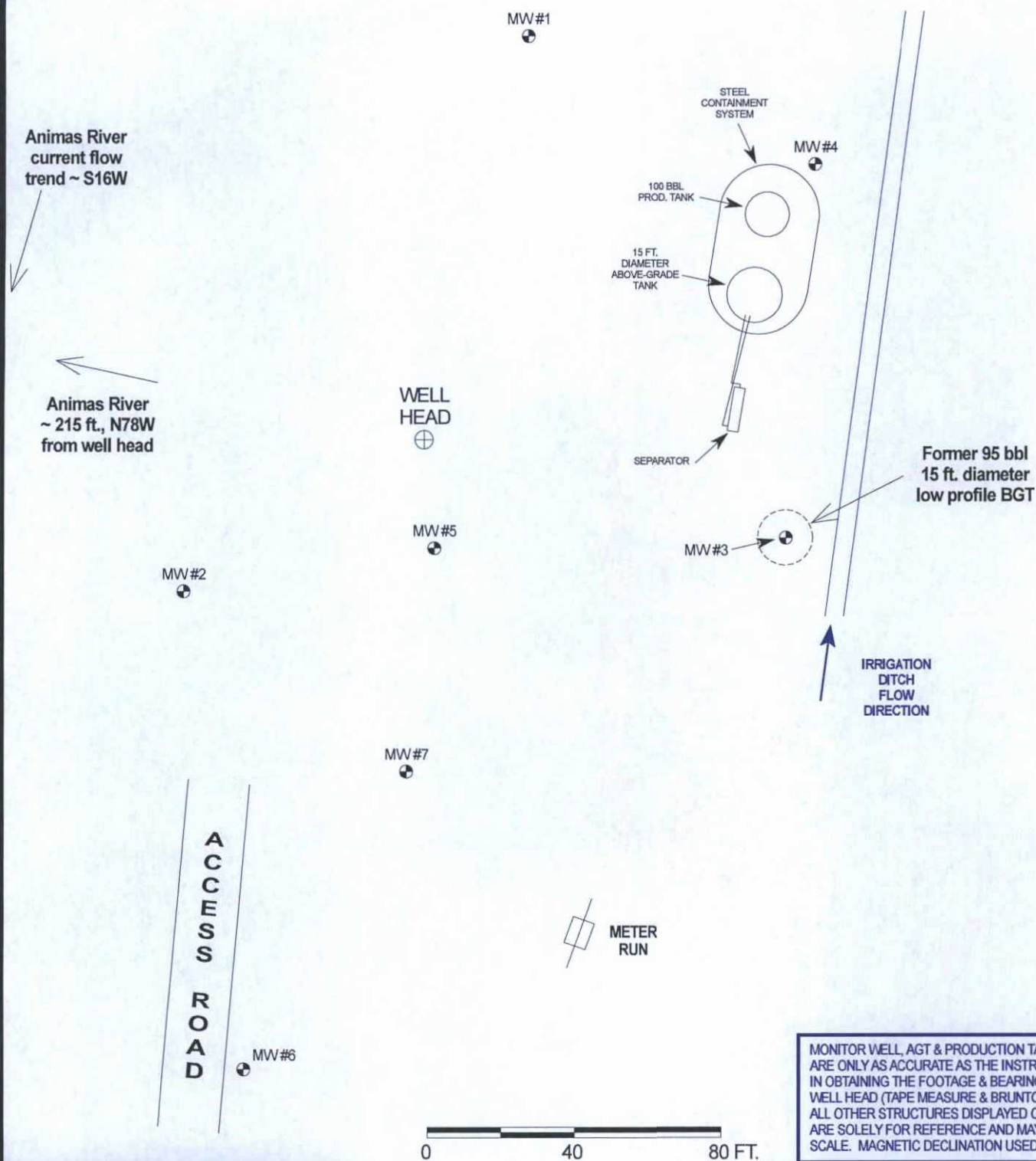
**GROUNDWATER  
CONTOUR**

**MAP**

07/13



# FIGURE 1



BP AMERICA PRODUCTION COMPANY

NYE LS # 1A

SW/4 SE/4 SEC. 23, T31N, R11W

SAN JUAN COUNTY, NEW MEXICO

**BLAGG ENGINEERING, Inc.**

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW INSTALLATIONS

DRAWN BY: NJV

FILENAME: NYE LS 1A Site Map 08-17-13.SKF

REVISED: 09-15-15

**SITE  
MAP**

08/13



## Analytical Report

Lab Order 1205841

Date Reported: 5/24/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: GW @ 3' (95 LP BGT)

Project: NYE LS #1A

Collection Date: 5/17/2012 9:50:00 AM

Lab ID: 1205841-001

Matrix: AQUEOUS

Received Date: 5/18/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	1.0		µg/L	1	5/21/2012 5:54:21 PM
Toluene	ND	1.0		µg/L	1	5/21/2012 5:54:21 PM
Ethylbenzene	ND	1.0		µg/L	1	5/21/2012 5:54:21 PM
Xylenes, Total	ND	2.0		µg/L	1	5/21/2012 5:54:21 PM
Surr: 4-Bromofluorobenzene	94.6	55-140		%REC	1	5/21/2012 5:54:21 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: BRM
Chloride	380	10		mg/L	20	5/21/2012 1:53:50 PM

**Qualifiers:**   \*/X   Value exceeds Maximum Contaminant Level.  
                  E    Value above quantitation range  
                  J    Analyte detected below quantitation limits  
                  R    RPD outside accepted recovery limits  
                  S    Spike Recovery outside accepted recovery limits

B   Analyte detected in the associated Method Blank  
H   Holding times for preparation or analysis exceeded  
ND  Not Detected at the Reporting Limit  
RL  Reporting Detection Limit



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1205841

Date Reported: 5/24/2012

CLIENT: Blagg Engineering

Client Sample ID: GW @ 3' (95 LP BGT)

Project: NYE LS #1A

Collection Date: 5/17/2012 9:50:00 AM

Lab ID: 1205841-001

Matrix: AQUEOUS

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Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	1.0		µg/L	1	5/21/2012 5:54:21 PM
Toluene	ND	1.0		µg/L	1	5/21/2012 5:54:21 PM
Ethylbenzene	ND	1.0		µg/L	1	5/21/2012 5:54:21 PM
Xylenes, Total	ND	2.0		µg/L	1	5/21/2012 5:54:21 PM
Surr: 4-Bromofluorobenzene	94.6	55-140		%REC	1	5/21/2012 5:54:21 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: BRM
Chloride	380	10		mg/L	20	5/21/2012 1:53:50 PM

**Qualifiers:** \*/X Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit



<b>Chain-of-Custody Record</b>		Turn-Around Time:
Client: <b>BLAGG ENGR. / BP AMERICA</b>	<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush
Mailing Address: <b>P.O. BOX 87</b>	Project Name: <b>NYE LS #1A</b>	
<b>BLOOMFIELD, NM 87413</b>	Project #:	
Phone #: <b>(505) 632-1199</b>	Project Manager:	
email or Fax#:	<b>NELSON VELEZ</b>	
QA/QC Package:		
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	
Accreditation:	Sampler: <b>NELSON VELEZ</b> <b>gmv</b>	
<input type="checkbox"/> NELAP	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> EDD (Type)	Sample Temperature: <b>10</b>	

Sample Temperature: 1.0

[www.hallenvironmental.com](http://www.hallenvironmental.com)

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

✓	BTEX + <del>MTBE</del> + THMs's (8021B)	
	BTEX + MTBE + TPH (Gas only)	
	TPH Method 8015B (Gas/Diesel)	
	TPH (Method 418.1)	
	EDB (Method 504.1)	
	8310 (PNA or PAH)	
	RCRA 8 Metals	
	Anions (F, Cl, NO3, NO2, PO4, SO4)	
	8081 Pesticides / 8082 PCB's	
	8260B (VOA)	
	8270 (Semi-VOA)	
✓	Chloride ( <del>300.0</del> ) (300.1) <i>212</i>	
✓	Grab sample	
	5 pt. composite sample	
	Air Bubbles (Y or N)	

[illegible]

Date: 5/17/12	Time: 1320	Relinquished by: John JF	Received by: Christine Walter	Date 5/17/12	Time 1320
Date: 5/17/12	Time: 1710	Relinquished by: Christine Walter	Received by: Michelle	Date 5/18/12	Time 1000

Work Order: N15/5778 Paykey: ZBLACATIMC

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#: 1205841

24-May-12

Client: Blagg Engineering

Project: NYE LS #1A

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R2942	RunNo:	2942					
Prep Date:		Analysis Date:	5/21/2012	SeqNo:	81679	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R2942	RunNo:	2942					
Prep Date:		Analysis Date:	5/21/2012	SeqNo:	81680	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.7	0.50	5.000	0	94.4	90	110			

Sample ID	1205829-003AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R2942	RunNo:	2942					
Prep Date:		Analysis Date:	5/21/2012	SeqNo:	81682	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	5.000	7.117	103	78	107			

Sample ID	1205829-003AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R2942	RunNo:	2942					
Prep Date:		Analysis Date:	5/21/2012	SeqNo:	81683	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	5.000	7.117	102	78	107	0.334	20	

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID:	R2942	RunNo:	2942					
Prep Date:		Analysis Date:	5/21/2012	SeqNo:	81735	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID:	R2942	RunNo:	2942					
Prep Date:		Analysis Date:	5/21/2012	SeqNo:	81736	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.8	0.50	5.000	0	95.4	90	110			

Sample ID	1205873-001BMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R2942	RunNo:	2942					
Prep Date:		Analysis Date:	5/22/2012	SeqNo:	81744	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	19	0.50	5.000	13.35	104	78	107			

## Qualifiers:

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

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205841

24-May-12

Client: Blagg Engineering

Project: NYE LS #1A

Sample ID	1205873-001BMSD			SampType:	MSD		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC		Batch ID:	R2942		RunNo:	2942				
Prep Date:			Analysis Date:	5/22/2012		SeqNo:	81745		Units:	mg/L	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	19	0.50	5.000	13.35	104	78	107	0.235	20		

## Qualifiers:

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

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205841

24-May-12

Client: Blagg Engineering

Project: NYE LS #1A

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R2940	RunNo:	2940					
Prep Date:		Analysis Date:	5/21/2012	SeqNo:	81596	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		99.9	55	140			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R2940	RunNo:	2940					
Prep Date:		Analysis Date:	5/21/2012	SeqNo:	81598	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	80	120			
Toluene	21	1.0	20.00	0	105	80	120			
Ethylbenzene	20	1.0	20.00	0	102	80	120			
Xylenes, Total	61	2.0	60.00	0	102	80	120			
Surr: 4-Bromofluorobenzene	23		20.00		113	55	140			

## Qualifiers:

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

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
RL Reporting Detection Limit





HALL ENVIRONMENTAL ANALYSIS LABORATORY  
4901 Hawkins NE  
Albuquerque, NM 87105  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: **1205841**

Received by/date: **MG 05/18/12**

Logged By: **Anne Thorne** 5/18/2012 10:00:00 AM

*Anne Thorne*

Completed By: **Anne Thorne** 5/21/2012

*Anne Thorne*

Reviewed By: **AT 05/21/12**

### Chain of Custody

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

### Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐  
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
6. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
7. Sample(s) in proper container(s)? Yes ☒ No ☐  
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒  
12. Were any sample containers received broken? Yes ☒ No ☐  
13. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
15. Is it clear what analyses were requested? Yes ☒ No ☐  
16. 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)

17. 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: \_\_\_\_\_

18. Additional remarks:

### 19. Cooler Information

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





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

September 03, 2013

Nelson Velez  
Blagg Engineering  
P. O. Box 87  
Bloomfield, NM 87413  
TEL: (505) 320-3489  
FAX (505) 632-3903

RE: NYE LS #1A

OrderNo.: 1308871

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 7 sample(s) on 8/20/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1308871

Date Reported: 9/3/2013

CLIENT: Blagg Engineering

Client Sample ID: MW #1

Project: NYE LS #1A

Collection Date: 8/17/2013 7:40:00 AM

Lab ID: 1308871-001

Matrix: AQUEOUS

Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	1.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 12:18:43 PM	R12796
Surr: 4-Bromofluorobenzene	106	69.4-129		%REC	1	8/21/2013 12:18:43 PM	R12796
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Fluoride	0.71	0.10		mg/L	1	8/21/2013 11:30:25 AM	R12802
Chloride	27	10		mg/L	20	8/21/2013 12:07:39 PM	R12802
Nitrate+Nitrite as N	ND	1.0		mg/L	5	8/21/2013 11:17:40 PM	R12802
Sulfate	81	10		mg/L	20	8/21/2013 12:07:39 PM	R12802
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: ELS
Iron	0.65	0.020	*	mg/L	1	8/26/2013 8:13:10 PM	R12893
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: KS
Total Dissolved Solids	750	200	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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

**Qualifiers:**

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

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



**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1308871

Date Reported: 9/3/2013

**CLIENT:** Blagg Engineering**Client Sample ID:** MW #2**Project:** NYE LS #1A**Collection Date:** 8/17/2013 8:30:00 AM**Lab ID:** 1308871-002**Matrix:** AQUEOUS**Received Date:** 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	1.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 12:48:46 PM	R12796
Surr: 4-Bromofluorobenzene	105	69.4-129		%REC	1	8/21/2013 12:48:46 PM	R12796
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Fluoride	0.42	0.10		mg/L	1	8/21/2013 12:20:04 PM	R12802
Chloride	44	10		mg/L	20	8/21/2013 12:32:29 PM	R12802
Nitrate+Nitrite as N	ND	1.0		mg/L	5	8/21/2013 11:30:05 PM	R12802
Sulfate	540	10		mg/L	20	8/21/2013 12:32:29 PM	R12802
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Iron	3.6	0.10	*	mg/L	5	8/26/2013 8:25:02 PM	R12893
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	1240	200	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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

**Qualifiers:**

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

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



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1308871

Date Reported: 9/3/2013

CLIENT: Blagg Engineering

Client Sample ID: MW #3

Project: NYE LS #1A

Collection Date: 8/17/2013 10:00:00 AM

Lab ID: 1308871-003

Matrix: AQUEOUS

Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	1.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 1:19:00 PM	R12796
Surr: 4-Bromofluorobenzene	106	69.4-129		%REC	1	8/21/2013 1:19:00 PM	R12796
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JRR
Fluoride	0.57	0.10		mg/L	1	8/21/2013 1:22:07 PM	R12802
Chloride	22	10		mg/L	20	8/21/2013 1:34:32 PM	R12802
Nitrate+Nitrite as N	4.9	1.0		mg/L	5	8/21/2013 11:42:30 PM	R12802
Sulfate	120	10		mg/L	20	8/21/2013 1:34:32 PM	R12802
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: ELS
Iron	0.042	0.020		mg/L	1	8/26/2013 8:29:06 PM	R12893
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: KS
Total Dissolved Solids	485	100		mg/L	1	8/23/2013 8:19:00 AM	8968

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

**Qualifiers:**

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

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



## Analytical Report

Lab Order 1308871

Date Reported: 9/3/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #4

Project: NYE LS #1A

Collection Date: 8/17/2013 10:45:00 AM

Lab ID: 1308871-004

Matrix: AQUEOUS

Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	1.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 1:49:18 PM	R12796
Surr: 4-Bromofluorobenzene	105	69.4-129		%REC	1	8/21/2013 1:49:18 PM	R12796
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Fluoride	0.49	0.10		mg/L	1	8/21/2013 1:46:56 PM	R12802
Chloride	23	10		mg/L	20	8/21/2013 1:59:20 PM	R12802
Nitrate+Nitrite as N	5.1	1.0		mg/L	5	8/21/2013 11:54:55 PM	R12802
Sulfate	130	10		mg/L	20	8/21/2013 1:59:20 PM	R12802
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Iron	0.057	0.020		mg/L	1	8/26/2013 8:37:20 PM	R12893
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	575	100	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	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
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	



## Analytical Report

Lab Order 1308871

Date Reported: 9/3/2013

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #5

Project: NYE LS #1A

Collection Date: 8/17/2013 12:10:00 PM

Lab ID: 1308871-005

Matrix: AQUEOUS

Received Date: 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	1.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 2:19:24 PM	R12796
Surr: 4-Bromofluorobenzene	105	69.4-129		%REC	1	8/21/2013 2:19:24 PM	R12796
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Fluoride	0.65	0.10		mg/L	1	8/21/2013 2:11:45 PM	R12802
Chloride	23	10		mg/L	20	8/21/2013 2:24:09 PM	R12802
Nitrate+Nitrite as N	1.3	1.0		mg/L	5	8/22/2013 12:07:20 AM	R12802
Sulfate	260	10		mg/L	20	8/21/2013 2:24:09 PM	R12802
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Iron	ND	0.020		mg/L	1	8/26/2013 8:45:30 PM	R12893
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	684	40.0	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	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
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	



**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1308871

Date Reported: 9/3/2013

**CLIENT:** Blagg Engineering**Client Sample ID:** MW #6**Project:** NYE LS #1A**Collection Date:** 8/17/2013 11:30:00 AM**Lab ID:** 1308871-006**Matrix:** AQUEOUS**Received Date:** 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	1.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Xylenes, Total	ND	2.0		µg/L	1	8/21/2013 2:49:39 PM	R12796
Surr: 4-Bromofluorobenzene	106	69.4-129		%REC	1	8/21/2013 2:49:39 PM	R12796
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Fluoride	0.46	0.10		mg/L	1	8/21/2013 2:36:33 PM	R12802
Chloride	20	10		mg/L	20	8/21/2013 2:48:58 PM	R12802
Nitrate+Nitrite as N	1.7	1.0		mg/L	5	8/22/2013 12:19:44 AM	R12802
Sulfate	110	10		mg/L	20	8/21/2013 2:48:58 PM	R12802
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Iron	ND	0.020		mg/L	1	8/26/2013 9:05:51 PM	R12893
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	444	40.0		mg/L	1	8/23/2013 8:19:00 AM	8968

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

**Qualifiers:**

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

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

**Hall Environmental Analysis Laboratory, Inc.****Analytical Report**

Lab Order 1308871

Date Reported: 9/3/2013

**CLIENT:** Blagg Engineering**Client Sample ID:** MW #7**Project:** NYE LS #1A**Collection Date:** 8/17/2013 9:10:00 AM**Lab ID:** 1308871-007**Matrix:** AQUEOUS**Received Date:** 8/20/2013 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	1.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Toluene	ND	1.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Ethylbenzene	ND	1.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Xylenes, Total	2.9	2.0		µg/L	1	8/21/2013 3:19:53 PM	R12796
Surr: 4-Bromofluorobenzene	107	69.4-129		%REC	1	8/21/2013 3:19:53 PM	R12796
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JRR</b>
Fluoride	0.59	0.10		mg/L	1	8/21/2013 3:01:23 PM	R12802
Chloride	24	10		mg/L	20	8/21/2013 3:13:47 PM	R12802
Nitrate+Nitrite as N	2.4	1.0		mg/L	5	8/22/2013 12:32:08 AM	R12802
Sulfate	270	10		mg/L	20	8/21/2013 3:13:47 PM	R12802
<b>EPA METHOD 200.7: DISSOLVED METALS</b>							Analyst: <b>ELS</b>
Iron	ND	0.020		mg/L	1	8/26/2013 9:14:02 PM	R12893
<b>SM2540C MOD: TOTAL DISSOLVED SOLIDS</b>							Analyst: <b>KS</b>
Total Dissolved Solids	702	40.0	*	mg/L	1	8/23/2013 8:19:00 AM	8968

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

**Qualifiers:**

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

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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308871

03-Sep-13

Client: Blagg Engineering

Project: NYE LS #1A

Sample ID	MB	SampType:	MBLK	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	PBW	Batch ID:	R12893	RunNo:	12893					
Prep Date:		Analysis Date:	8/26/2013	SeqNo:	367533	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								

Sample ID	LCS	SampType:	LCS	TestCode:	EPA Method 200.7: Dissolved Metals					
Client ID:	LCSW	Batch ID:	R12893	RunNo:	12893					
Prep Date:		Analysis Date:	8/26/2013	SeqNo:	367534	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.49	0.020	0.5000	0	97.7	85	115			

## Qualifiers:

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

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308871

03-Sep-13

Client: Blagg Engineering

Project: NYE LS #1A

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R12802			RunNo: 12802					
Prep Date:		Analysis Date: 8/21/2013			SeqNo: 364935		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID	LCS-b	SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID: R12802			RunNo: 12802					
Prep Date:		Analysis Date: 8/21/2013			SeqNo: 364937		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	96.1	90	110			
Chloride	4.6	0.50	5.000	0	93.0	90	110			
Sulfate	9.5	0.50	10.00	0	94.9	90	110			
Nitrate+Nitrite as N	3.3	0.20	3.500	0	95.6	90	110			

Sample ID	1308871-001BMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	MW #1	Batch ID:	R12802	RunNo:	12802					
Prep Date:		Analysis Date:	8/21/2013	SeqNo:	364939	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.2	0.10	0.5000	0.7095	91.7	76.9	114			

Sample ID	1308871-001BMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	MW #1	Batch ID:	R12802	RunNo:	12802					
Prep Date:		Analysis Date:	8/21/2013	SeqNo:	364940	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.1	0.10	0.5000	0.7095	86.6	76.9	114	2.20	20	

Sample ID	1308898-001BMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	R12802	RunNo:	12802					
Prep Date:		Analysis Date:	8/21/2013	SeqNo:	364962	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.1	0.10	0.5000	0.6796	91.1	76.9	114			
Chloride	9.8	0.50	5.000	4.761	101	89.9	119			
Sulfate	28	0.50	10.00	17.48	107	90.1	116			
Nitrate+Nitrite as N	3.6	0.20	3.500	0.2331	95.9	90	110			

## Qualifiers:

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

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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308871

03-Sep-13

Client: Blagg Engineering

Project: NYE LS #1A

Sample ID	1308898-001BMSD			SampType:	MSD		TestCode:	EPA Method 300.0: Anions			
Client ID:	BatchQC		Batch ID:		R12802		RunNo:	12802			
Prep Date:				Analysis Date:	8/21/2013		SeqNo:	364963		Units:	mg/L
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Fluoride	1.1	0.10	0.5000	0.6796	92.2	76.9	114	0.466	20		
Chloride	9.8	0.50	5.000	4.761	101	89.9	119	0.339	20		
Sulfate	28	0.50	10.00	17.48	108	90.1	116	0.204	20		
Nitrate+Nitrite as N	3.6	0.20	3.500	0.2331	95.7	90	110	0.131	20		

Sample ID	MB	SampType: MBLK			TestCode: EPA Method 300.0: Anions					
Client ID:	PBW	Batch ID: R12802			RunNo: 12802					
Prep Date:		Analysis Date: 8/22/2013			SeqNo: 365005		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Sulfate	ND	0.50								
Nitrate+Nitrite as N	ND	0.20								

Sample ID	LCS	SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSW	Batch ID: R12802			RunNo: 12802					
Prep Date:		Analysis Date: 8/22/2013			SeqNo: 365006		Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.51	0.10	0.5000	0	103	90	110			
Chloride	4.9	0.50	5.000	0	97.5	90	110			
Sulfate	9.9	0.50	10.00	0	99.5	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	101	90	110			

## Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308871

03-Sep-13

Client: Blagg Engineering

Project: NYE LS #1A

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBW	Batch ID:	R12796	RunNo:	12796					
Prep Date:		Analysis Date:	8/21/2013	SeqNo:	364721	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	21		20.00		107	69.4	129			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSW	Batch ID:	R12796	RunNo:	12796					
Prep Date:		Analysis Date:	8/21/2013	SeqNo:	364722	Units:	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.7	80	120			
Toluene	19	1.0	20.00	0	96.8	80	120			
Ethylbenzene	19	1.0	20.00	0	96.8	80	120			
Xylenes, Total	59	2.0	60.00	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		110	69.4	129			

## Qualifiers:

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

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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308871

03-Sep-13

Client: Blagg Engineering

Project: NYE LS #1A

Sample ID	MB-8968	SampType:	MBLK	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	PBW	Batch ID:	8968	RunNo:	12829					
Prep Date:	8/21/2013	Analysis Date:	8/23/2013	SeqNo:	365551	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	LCS-8968	SampType:	LCS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	LCSW	Batch ID:	8968	RunNo:	12829					
Prep Date:	8/21/2013	Analysis Date:	8/23/2013	SeqNo:	365552	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1030	20.0	1000	0	103	80	120			

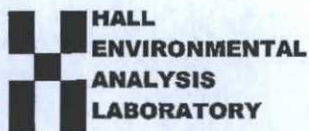
Sample ID	1308726-002EMS	SampType:	MS	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	BatchQC	Batch ID:	8968	RunNo:	12829					
Prep Date:	8/21/2013	Analysis Date:	8/23/2013	SeqNo:	365556	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	8160	40.0	2000	6104	103	80	120			

Sample ID	1308726-002EMSD	SampType:	MSD	TestCode:	SM2540C MOD: Total Dissolved Solids					
Client ID:	BatchQC	Batch ID:	8968	RunNo:	12829					
Prep Date:	8/21/2013	Analysis Date:	8/23/2013	SeqNo:	365557	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	8090	40.0	2000	6104	99.3	80	120	0.862	5	

## Qualifiers:

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

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



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

## Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1308871**

RcptNo: **1**

Received by/date:

*LM 08/20/13*

Logged By: **Anne Thorne**

8/20/2013 9:50:00 AM

*Anne Thorne*

Completed By: **Anne Thorne**

8/20/2013

*Anne Thorne*

Reviewed By:

*mg*

*08/21/13*

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:

*14*

( $<2$  or  $>12$  unless noted)

Adjusted?

*NO*

Checked by:

*[Signature]*

### 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



# Chain-of-Custody Record

Turn-Around Time:

Client: **BLAGG ENGR. / BP AMERICA**

☒ Standard ☐ Rush

Project Name:

**NYE LS # 1A**

Mailing Address: **P.O. BOX 87**

**BLOOMFIELD, NM 87413**

Project #:

Phone #: **(505) 632-1199**

email or Fax#:

Project Manager:

**NELSON VELEZ**

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Sampler: **NELSON VELEZ**

On Ice: ☒ Yes ☐ No

Sample Temperature: **10**



## 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.	BTEX + MTBE	BTEX + MTBE	TPH 8015B (G)	TPH (Method)	EDB (Method)	PAH (8310 o	RCRA 8 Met	Anions (F, Cl,	Total Dissolv	Iron, Ferrous	Nitrate N	Grab sample	5 pt. compos
8/17/13	0740	WATER	MW # 1	40 ml VOA - 2	HCl & Cool	1308871 -001	✓												✓
8/17/13	0740	WATER	MW # 1	500 ml - 1	Cool	-001								✓	✓				✓
8/17/13	0740	WATER	MW # 1	125 ml - 1	HNO <sub>3</sub> & Cool	-001										✓			✓
8/17/13	0740	WATER	MW # 1	125 ml - 1	H <sub>2</sub> SO <sub>4</sub>	-001											✓		✓
8/17/13	0830	WATER	MW # 2	40 ml VOA - 2	HCl & Cool	-002	✓												✓
8/17/13	0830	WATER	MW # 2	500 ml - 1	Cool	-002								✓	✓				✓
8/17/13	0830	WATER	MW # 2	125 ml - 1	HNO <sub>3</sub> & Cool	-002										✓			✓
8/17/13	0830	WATER	MW # 2	125 ml - 1	H <sub>2</sub> SO <sub>4</sub>	-002											✓		✓
8/17/13	1000	WATER	MW # 3	40 ml VOA - 2	HCl & Cool	-003	✓												✓
8/17/13	1000	WATER	MW # 3	500 ml - 1	Cool	-003								✓	✓				✓
8/17/13	1000	WATER	MW # 3	125 ml - 1	HNO <sub>3</sub> & Cool	-003										✓			✓
8/17/13	1000	WATER	MW # 3	125 ml - 1	H <sub>2</sub> SO <sub>4</sub>	-003											✓		✓

Date: **8/19/13** Time: **937** Relinquished by: *[Signature]*

Received by: *[Signature]* Date: **8/19/13** Time: **937**

Remarks:

pg. 1 of 3

Send invoice to:

Blagg Engineering, Inc.  
P.O. Box 87  
Bloomfield, NM 87413

Date: **8/19/13** Time: **1600** Relinquished by: *[Signature]*

Received by: *[Signature]* Date: **08/20/13** Time: **0950**

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any such contracted data will be clearly indicated.



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)

☒ Standard ☐ Rush

Project Name:  
**NYE LS # 1A**

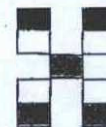
Project #:

Project Manager:  
**NELSON VELEZ**

Sampler: **NELSON VELEZ**

On Ice: ☒ Yes ☐ No

Sample Temperature: **10**



# 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	BTEX + MTBE	BTEX + MTBE + TPH	TPH 8015B (GC)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	Total Dissolved Solids	Iron, Ferrous (filtered)	Nitrate N / Nitrite N	Grab sample	5 pt. composite	
8/17/13	1045	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	1308871 -004	✓												✓	
8/17/13	1045	WATER	MW # 4	500 ml - 1	Cool	-004								✓	✓				✓	
8/17/13	1045	WATER	MW # 4	125 ml - 1	HNO <sub>3</sub> & Cool	-004										✓			✓	
8/17/13	1045	WATER	MW # 4	125 ml - 1	H <sub>2</sub> SO <sub>4</sub>	-004											✓		✓	
8/17/13	1210	WATER	MW # 5	40 ml VOA - 2	HCl & Cool	-005	✓												✓	
8/17/13	1210	WATER	MW # 5	500 ml - 1	Cool	-005								✓	✓				✓	
8/17/13	1210	WATER	MW # 5	125 ml - 1	HNO <sub>3</sub> & Cool	-005										✓			✓	
8/17/13	1210	WATER	MW # 5	125 ml - 1	H <sub>2</sub> SO <sub>4</sub>	-006											✓		✓	
8/17/13	1130	WATER	MW # 6	40 ml VOA - 2	HCl & Cool	-006	✓												✓	
8/17/13	1130	WATER	MW # 6	500 ml - 1	Cool	-006								✓	✓				✓	
8/17/13	1130	WATER	MW # 6	125 ml - 1	HNO <sub>3</sub> & Cool	-006										✓			✓	
8/17/13	1130	WATER	MW # 6	125 ml - 1	H <sub>2</sub> SO <sub>4</sub>	-006											✓		✓	

Date: **8/19/13** Time: **937** Relinquished by: *[Signature]*

Date: **8/19/13** Time: **1400** Relinquished by: *[Signature]*

Received by: *[Signature]* Date: **8/19/13** Time: **937**

Received by: *[Signature]* Date: **8/20/13** Time: **0850**

Remarks:

Send invoice to:

**Blagg Engineering, Inc.**  
**P.O. Box 87**  
**Bloomfield, NM 87413**

pg. 2 of 3

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 noted on the analysis report.







