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

Type of action: Below grade tank registration

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

OIL CONS. DIV DIST. 3
FEB 08 2018

Form C-144 Revised April 3, 2017

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.

<u>Pit, Below-Grade Tank, or</u> <u>Proposed Alternative Method Permit or Closure Plan Application</u>

Closure of a pit, Modification to	or proposed alternative method below-grade tank, or proposed alternative method an existing permit/or registration ly submitted for an existing permitted or non-permitted pit, below-grade tank,
Instructions: Please submit one applicat	tion (Form C-144) per individual pit, below-grade tank or alternative request
environment. Nor does approval relieve the operator of its respon	e operator of liability should operations result in pollution of surface water, ground water or the nsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
n. Operator: BP America Production Company	OGRID #: 778
Address: 200 Energy Court, Farmington, NM 87401	
Facility or well name: VANDEWART A 001	
API Number: 3004508589	
	ownship 29N Range 08W County: San Juan
Center of Proposed Design: Latitude 36.74448	Longitude -107.64049 NAD83
Surface Owner: Federal State Private Tribal T	
String-Reinforced Liner Seams:	
4.	
Alternative Method:	
Submittal of an exception request is required. Exceptions n	nust be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to p Chain link, six feet in height, two strands of barbed wire institution or church)	permanent pits, temporary pits, and below-grade tanks) at top (Required if located within 1000 feet of a permanent residence, school, hospital,
Four foot height, four strands of barbed wire evenly space	ed between one and four feet
Alternate. Please specify	



·	
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)	
☐ Screen ☐ Netting ☐ Other	
☐ Monthly inspections (If netting or screening is not physically feasible)	
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 acceptance are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ 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
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.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 No Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc 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 19.1 and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC 5.17.9 NMAC
11.	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc 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 19.1 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:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC 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 ₂ 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	documents are
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	luid Management Pit
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15.	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 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
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
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	.11 NMAC 15.17.11 NMAC
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believes	ief.
Name (Print):	
Signature: Date:	
e-mail address: Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: OCD Permit Number:	8106901
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date:	the closure report.
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Title: OCD Permit Number: OCD Permit Number: OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report.

Operator Closure Certification:	
	tted with this closure report is true, accurate and complete to the best of my knowledge and cable closure requirements and conditions specified in the approved closure plan.
Name (Print): Erin Garifalos	Title: Field Environmental Coordinator
Signature:UM gwifalos	Date: February 7, 2018
e-mail address: erin.garifalos@bp.com	Telephone: (832) 609-7048

BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

VANDEWART A 001

API No. 3004508589

Unit Letter A Section 11 T 29N R 08W

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 and is attached.

- 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)
 - 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	Release Verification	Sample
	95 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	10	< 0.019
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.077
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<49
Chlorides	US EPA Method 300.0 or 4500B	620	<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 chloride, TPH and BTEX with all concentrations below the stated limits. 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 indicate a release has not occurred. Attached is a laboratory report and C-141.

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

Sampling results indicate a release has not occurred. Attached is a laboratory report and field report. The location will be reclaimed when the well is plugged and abandoned.

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 the location will be reclaimed once the well is 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 the location will be reclaimed once the well is 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 the location will be reclaimed once the well is 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 the location will be reclaimed once 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 revegetation.

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

- 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

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

Form C-141 Revised April 3, 2017

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

			Kele	ease Notific	eation	and Co	orrective A	ction	l			
						OPERA	ГOR		Initia	al Report		Final Report
				tion Company	/	Contact Erir	Garifalos					
				n, NM 87401			No. (832) 609-					
Facility Nan	ne VAND	EWART A	001]	Facility Typ	e: Natural Ga	as We				
Surface Ow	ner: Fede	eral		Mineral C	wner:	Federal			API No	.300450	8589	
				LOCA	TION	OF REI	LEASE					
Unit Letter	Section 11	Township 29N	Range 08W	Feet from the 990	North/	South Line	Feet from the 990	East/V	West Line	County	an	Juan
			Latitud	_e 36.74448	Lo	ngitude1	07.64049	NAD	83			
				NAT	URE	OF RELI	EASE					
Type of Relea	ase:: none)					Release:: unkno			Recovered::		
Source of Rel	lease: belo	w grade ta	nk - 95	obl		Date and H	lour of Occurrence	ee:	Date and I	Hour of Disc	covery:	
Was Immedia						If YES, To	Whom?		11/4			
			Yes 🗸	No Not Re	equired							
By Whom?						Date and H						
Was a Water	course Read		Yes 🗸	No		If YES, Vo	lume Impacting t	the Wate	ercourse.			
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*									
Describe Cau	se of Probl	em and Remed	dial Action	Samp Soil a	nalys	is resulte	beneath the d for Chlorid Field reports	les, B	TEX, an	nd TPH b	elow	BGT
Describe Area	a Affected	and Cleanup A	Action Tak	en.*								
				No actio remedial	actio	n is requ						
regulations al public health should their o or the environ	I operators or the envir perations h nment. In a	are required to ronment. The ave failed to a	acceptance acceptance adequately CD accep	is true and comp d/or file certain re e of a C-141 repo investigate and re tance of a C-141	elease no rt by the emediate	otifications are NMOCD made contamination	nd perform correct arked as "Final Ro on that pose a thre	etive act eport" of eat to gr	ions for rele loes not reli round water	eases which is eve the opera- , surface wat	may end ator of l ter, hum	danger liability nan health
Signature:	rin g	wifalo	4				OIL CONS			DIVISIO	N	
Printed Name	Erin G	arifalos				Approved by	Environmental S ₁	pecialis	::			
Title: Field			I Coo	rdinator	1	Approval Dat	e:		Expiration I	Date:		
E-mail Addre	ss: erin.	garifalos	@bp.	com	(Conditions of	`Approval:			Attached		
Date: Febru				(832) 609-70)48					7 ittuelled		

bp



BP America Production Company 200 Energy Court Farmington, NM 87401

December 7, 2017

Bureau of Land Management Whitney Thomas 6251 College Suite A Farmington, NM 87402

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank

Well Name: VANDEWART A 001

API #: 3004508589

Dear Mrs. Thomas,

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 December 9, 2017. 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.

If witnessing of the tank removal is required please contact me for a specific time (832)-609-7048.

Sincerely,

Erin Garifalos

BP America Production Company

Garifalos, Erin

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>

Sent: Friday, December 08, 2017 8:00 AM

To: Moskal, Steven; Smith, Cory, EMNRD; Whitney Thomas

Cc: Blagg, Jefferey; blagg_njv@yahoo.com; Garifalos, Erin; Buckley, Farrah (CH2M HILL)

Subject: RE: BP Pit Close Notification - VANDEWART A 001

Categories: CAUTION: External email - increased risk of phishing

Good morning Steve,

Please proceed with BP's request to remove the referenced BGT's.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463

vanessa.fields@state.nm.us

From: Moskal, Steven [mailto:Steven.Moskal@bp.com]

Sent: Friday, December 8, 2017 7:53 AM

To: Fields, Vanessa, EMNRD < Vanessa. Fields@state.nm.us >; Smith, Cory, EMNRD < Cory. Smith@state.nm.us >; Whitney

Thomas < l1thomas@blm.gov>

Cc: Blagg, Jefferey < ieffcblagg@aol.com >; blagg njv@yahoo.com; Garifalos, Erin < Erin.Garifalos@bp.com >; Buckley,

Farrah (CH2M HILL) < farrah.buckley@bp.com>

Subject: Re: BP Pit Close Notification - VANDEWART A 001

Due to the construction crews being scheduled to work on Saturday in an effort to achieve BP implementation goal of the BGT ACO, we request a variance of the 72 hour notification to the NMOCD and surface landowner, the BLM. This work is scheduled for sometime tomorrow morning.

Please let me know if you approve.

Thank you,

Steve Moskal Environmental Coordinator -BP- SJS (505) 330-9179 Sent from my mobile device

On Dec 8, 2017, at 7:39 AM, Buckley, Farrah (CH2M HILL) < farrah.buckley@bp.com > wrote:

BP America Production Company

200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

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

December 8, 2017

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

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

VANDEWART A 001 API 30-045-08589 (A) Section 11 – T29N – R08W 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 two 95bbl BGT's that will no longer be operational at this well site. We anticipate this work to start on or around December 9, 2017.

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

Sincerely,

Erin Garifalos

Field Environmental Coordinator – San Juan Cell: 832-609-7048

Farrah Buckley
BGT Project Support
970-946-9199 -cell

This email and any attachments are intended only for the addressee(s) listed above and may contain confidential, proprietary, and/or privileged information. If you are not an intended recipient, please immediately advise the sender by return email, delete this email and any attachments, and destroy any copies of same. Any unauthorized review, use, copying disclosure or distribution of this email and any attachments is prohibited.

CLIENT: BP	P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 TANK ID (if applicble):										
FIELD REPORT:	(circle one): BGT CONFIRMATION	/ RELEASE INVESTIGATION / OT	THER:	PAGE #:1 c	of 1						
SITE INFORMATION	SITE NAME: VANDE	WART A #1		DATE STARTED: 12/	11/17						
QUAD/UNIT: A SEC: 11 TWP:			ST: NM	DATE FINISHED:							
1/4-1/4/FOOTAGE: 990'N / 990'I		STRIKE		ENVIRONMENTAL	111/						
		CONTRACTOR: BP - J. GOI									
					-						
1) 95 BGT (SW/DB) - B	GPS COORD.:	5.74448 X 107.64049	DISTANCE/BEAF	RING FROM W.H.: 103, N	78.5W						
2)	GPS COORD.:		DISTANCE/BEAF	RING FROM W.H.:							
			DISTANCE/BEAF	RING FROM W.H.:							
4)				RING FROM W.H.:	0144						
SAMPLING DATA:					READING (ppm)						
				15B/8021B/300.0 (CI)	NA						
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND	SILT / SILTY CLAY / CLAY / GRAVE!	LIOTHER								
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY (SLIGHTLY MOIST) MOIST / M SAMPLE TYPE: GRAB (COMPOSITE) #	Y COHESIVE / COHESIVE / HIGHLY COHESIVE OOSE FIRM DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED # OF PTS. 5	DENSITY (COHESIVE CLAYS & S HC ODOR DETECTED: YES NO E	SILTS): SOFT/FIRM/: EXPLANATION -	STIFF / VERY STIFF / HARD	-LY PLASTIC						
		T: YES NO EXPLANATION -									
APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:	ED AND/OR OCCURRED: YES NO EXPL YES NO EXPLANATION -	LANATION:									
EXCAVATION DIMENSION ESTIMATION	:NA ft. XNA	ft. X <u>NA</u> ft.	EXCAVATION EST	TIMATION (Cubic Yards) :	NA						
DEPTH TO GROUNDWATER: >100' N	IEAREST WATER SOURCE: >1,000	" NEAREST SURFACE WATER: _	<1,000' NMOC	CD TPH CLOSURE STD:)00 ppm						
SITE SKETCH	BGT Located: off on sit	te PLOT PLAN circle	le: attached OVM	CALIB READ = NA pr	nm pr -100						
(95)-B PBGTL			OVM	CALIB. GAS	NA						
T.B. ~ 4' B.G.	PROD. TANK	STEEL			IES						
←	>	RING									
DOWN SLOPE	$\rightarrow (x \overset{\hat{x}}{x} \overset{\hat{x}}{x})$										
DIRECTION			_		<u>!</u>						
BERN BERN				7.17.	4140						
	FENCE			0.010							
		WATE	Tan	nk OVM = Organic Vapor Me	ter						
FIELD REPORT: SITE INFORMATION: SITE NAME VANDEWART A # 1 CHARLINE AS EX. 11 TUP. 29N RNC. 8W PM. NM. CHTY. S.J. ST. NM. DATE STARTED 12/11/17 CHARLINE AS EX. 11 TUP. 29N RNC. 8W PM. NM. CHTY. S.J. ST. NM. DATE STARTED 12/11/17 CHARLINE AS EX. 11 TUP. 29N RNC. 8W PM. NM. CHTY. S.J. ST. NM. DATE STARTED 12/11/17 CHARLINE AS EX. 11 TUP. 29N RNC. 8W PM. NM. CHTY. S.J. ST. NM. DATE STARTED 12/11/17 CHARLINE AS EX. 15 TUP. 29N RNC. 8W PM. NM. CHTY. S.J. ST. NM. CHARLINE AS EX. 15 TUP. EX. 15 TUP. STRIKE 11/11/17 CHARLINE AS EX. 15 TUP. 29N RNC. 8W PM. NM. CHTY. S.J. ST. NM. CHARLINE AS EX. 15 TUP. STRIKE 11/11/17 CHARLINE AS EX. 15 TUP. 29N RNC. 8W PM. NM. CHTY. S.J. ST. NM. CHARLINE AS EX. 15 TUP. CHARLINE AS EX.											
FIELD REPORT: Circle one): BOT CONFINATION RELASE INVESTIGATION / OTHER OF 1											
FIELD REPORT: Girdlo code: BST CONFIGNATION: Girdlo code: BST CONFIGNATION RELEASE INVESTIGATION OTHER FIELD REPORT: Girdlo code: BST CONFIGNATION RELEASE INVESTIGATION OTHER FIELD REPORT: STENME VANDEWART A # 1 GUADAUNT A SEC 11 TUP 29N RNS 8W PM MM CNTY SJ ST NM JM-144-144F00TAGE: 990°N 990°E JM-144-144F00TAGE:											
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL	LOW-GRADE TANK LOCATION; SPD = SAMPLE I	POINT DESIGNATION; R.W. = RETAINING V									
NOTES: GOUGLE EARTH INIAG	ERY DATE: 10/5/2016.	ONSITE: 12/11/1	7								

Analytical Report

Lab Order 1712618

Date Reported: 12/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB @ 4' (95)

Project: VANDEWART A 1

Collection Date: 12/11/2017 2:45:00 PM

Lab ID: 1712618-001

Matrix: SOIL

Received Date: 12/12/2017 7:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	12/12/2017 12:18:12 PM 35456
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/12/2017 10:37:35 AM 35454
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/12/2017 10:37:35 AM 35454
Surr: DNOP	103	70-130	%Rec	1	12/12/2017 10:37:35 AM 35454
EPA METHOD 8015D: GASOLINE RANG	Ε				Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	12/12/2017 12:31:23 PM G47704
Surr: BFB	83.6	15-316	%Rec	1	12/12/2017 12:31:23 PM G47704
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	12/12/2017 12:31:23 PM B47704
Toluene	ND	0.039	mg/Kg	1	12/12/2017 12:31:23 PM B47704
Ethylbenzene	ND	0.039	mg/Kg	1	12/12/2017 12:31:23 PM B47704
Xylenes, Total	ND	0.077	mg/Kg	1	12/12/2017 12:31:23 PM B47704
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	12/12/2017 12:31:23 PM B47704

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

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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 5 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

CI	hain-c	of-Cus	tody Record	Turn-Around T	ime:	SAME	١.							AIL	/IF	00	B.E.S	VIII		ГА		
Client:	BLAG	G ENGR.	/ BP AMERICA	☐ Standard	Rush _	DAY)			H						SL							
				Project Name:											nme				~ "		. 3	
Mailing Ad	ddress:	P.O. BO	X 87	VA	NDEWART	A #1		49	01 H	ławk									9			
		BLOOM	FIELD, NM 87413	Project #:			1			05-34				-	505-							
Phone #:		(505) 63	2-1199									-			Rec				400	ţ.		
email or F	ax#:			Project Manag	јег.													0				
QA/QC Pad	ckage:				NELSON VI	I F7	(S)	χ	(0)					504	PCB's			-300.1)				
✓ Standa	ard		Level 4 (Full Validation)		IALESOIA VI	- h-6-	3021	s on	/ MRO)			MS)		204	2 PC			water-			e	
Accreditat	ion:			Sampler:	NELSON VI	LEZ	WB5 (8021B)	+ TPH (Gas only)	DRO	ਜ਼	1	OSIN		102	808			/ wa			dme	
□ NELAP		□ Other		CONTRACTOR	Yzr Yes	□ No	1	TPH	-	418	504	827	S	03,	/ Se		(AC	0.00			e Sc	S
□ EDD (T	ype)			Sample Jemp			1		(GR	po	por	or	stal	Z	cide	A	-K	II - 3		e	osit	(۲
Date	Time	Matrix	Sample Request ID	Container Type and # Meoff Ect	Preservative Type	HEALNO. 1	BTEX +-MTE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 /		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
12/11/17	1445	SOIL	5PC-TB@ 4/ (95)	4 oz 1	Cool	70	٧		٧									٧			٧	
-																						
													•									
																_					\dashv	
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						·				\square												
Date:	Time:	Relinquishe	ed by:	Received by:		Date Time	Rem	arks	:	BILL							ACT V	VITH (CORRI	SPON	DING	VID
12/11/17 Date:	1515 Time:	Relinquishe	Mulf	Received by:	bus /	Date Time	c			& REI	I GA	RIFA	LOS				N					
17/11/4	1924	a	a day	(I)	me A	12/12/17	Ref	eren			P -				clearly							

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712618

14-Dec-17

Client:

Blagg Engineering

Project:

VANDEWART A 1

Sample ID MB-35456

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 35456

PQL

PQL

1.5

RunNo: 47708

Prep Date:

12/12/2017

Analysis Date: 12/12/2017

SeqNo: 1526136

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

Result ND

1.5

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 300.0: Anions

Client ID:

Sample ID LCS-35456

LCSS

SampType: Ics Batch ID: 35456

RunNo: 47708

Units: mg/Kg

%RPD

Prep Date: 12/12/2017

Analysis Date: 12/12/2017

SeqNo: 1526137 SPK value SPK Ref Val %REC

%RPD HighLimit

14

15.00

0

Qual

Chloride

90.1

110

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded H ND

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank B

Value above quantitation range J Analyte detected below quantitation limits

Page 2 of 5

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Project: VANDEWART A 1 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Sample ID LCS-35454 Client ID: LCSS Batch ID: 35454 RunNo: 47697 Analysis Date: 12/12/2017 SeqNo: 1524595 Units: mg/Kg Prep Date: 12/12/2017 %RPD Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) 50.00 96.3 Surr: DNOP 4.5 5.000 90.2 70 130 Sample ID MB-35454 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Batch ID: 35454 PBS RunNo: 47697 Analysis Date: 12/12/2017 SeqNo: 1524596 Prep Date: 12/12/2017 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result HighLimit %RPD **RPDLimit** Qual 10 Diesel Range Organics (DRO) ND Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.6 10.00 95.8 70 130 Sample ID LCS-35433 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 35433 RunNo: 47696 Prep Date: 12/11/2017 Analysis Date: 12/12/2017 SeqNo: 1524952 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 5.000 130 Sample ID MB-35433 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 35433 RunNo: 47696 Prep Date: 12/11/2017 Analysis Date: 12/12/2017 SeqNo: 1524953 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 9.2 10.00 91.9 70 130 Comple ID I CC 35430

Sample ID L	.03-35429	Samprype	e. LUS	res	icode. E	PA Wethod	8015W/D: DI	esei Rang	e Organics	
Client ID: L	.CSS	Batch ID	35429	F	RunNo: 4	7697				
Prep Date:	12/11/2017	Analysis Date	2: 12/12/2017	5	SeqNo: 1	525049	Units: %Re	С		
Analyte		Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.7	5.000)	93.3	70	130			

Sample ID MB-35429	SampType: MBLK	TestCode: EPA Method	d 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 35429	RunNo: 47697	
Prep Date: 12/11/2017	Analysis Date: 12/12/2017	SeqNo: 1525050	Units: %Rec
Analyte	Result PQL SPK val	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	11 10.	00 106 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

PQL Practical Quanitative Limit

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

Page 3 of 5

WO#:

1712618

14-Dec-17

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

RPDLimit

1712618

14-Dec-17

Client:

Blagg Engineering

Project:

VANDEWART A 1

Sample ID RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

Batch ID: **G47704**

RunNo: 47704

Prep Date:

Analysis Date: 12/12/2017

SeqNo: 1525332

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result PQL

%REC SPK value SPK Ref Val LowLimit HighLimit

Qual

Qual

Surr: BFB

ND 840

1000

84 1

316

%RPD

%RPD

Sample ID 2.5UG GRO LCS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: **G47704**

RunNo: 47704

%REC

LowLimit

15

Units: mg/Kg

Prep Date:

Analysis Date: 12/12/2017

SeqNo: 1525333

0

Analyte Result SPK value SPK Ref Val Gasoline Range Organics (GRO) 24 5.0 25.00

96.8 75.9 15 HighLimit 131

Surr: BFB

980 1000

97.6

316

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
- **PQL** Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

1.0

WO#:

1712618

14-Dec-17

Client: Project:

Surr: 4-Bromofluorobenzene

Blagg Engineering VANDEWART A 1

Sample ID RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: **B47704** RunNo: 47704 Prep Date: Analysis Date: 12/12/2017 SeqNo: 1525365 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.025 Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.10 Xylenes, Total

104

80

120

Sample ID 100NG BTEX LC	Samp1	Гуре: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: B4	7704	F	RunNo: 4	7704				
Prep Date:	Analysis E	Date: 12	2/12/2017	S	SeqNo: 1	525366	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	77.3	128			
Toluene	0.94	0.050	1.000	0	94.1	79.2	125			
Ethylbenzene	0.93	0.050	1.000	0	93.3	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	95.8	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

1.000

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
- PQL Practical Quanitative Limit
- 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
- Page 5 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



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:	171261	8		RcptNo:	1
Received By:	Anne Thorne	12/12/2017 7:10:00 AM	ı	a	one Il-		
Completed By:	Anne Thorne	12/12/2017 7:50:36 AM	ı	0	one Ham		
Reviewed By:	CDS	12/12/17					
Chain of Cus	stody						
1. Custody sea	als intact on sample	bottles?	100		No 🗆	Not Present	
2. Is Chain of C	Custody complete?		Yes		No 🗌	Not Present	
3. How was the	e sample delivered	?	Courie	ŗ			
Log In							
4. Was an atte	empt made to cool t	the samples?	Yes	✓	No 🗔	NA 🗆	
5. Were all sar	mples received at a	temperature of >0° C to 6.0°C	Yes V	7	No 🗆	NA 🗆	
6. Sample(s) in	n proper container(s)?	Yes	V	No 🗆		**
7. Sufficient sa	mple volume for in	dicated test(s)?	Yes 5		No ·		·
		ONG) properly preserved?	Yes 5		No .		
	vative added to bott		Yes [No 🗹	NA 🗆	
10.VOA vials ha	ave zero headspac	97	Yes [No 🗆	No VOA Vials 🗹	
11. Were any sa	ample containers re	eceived broken?	Yes]	No 🗹 🗆	# of preserved	:
				·		bottles checked	* ·
	work match bottle la pancies on chain of	· ·	Yes		No L	for pH: (<2 o	r >12 unless noted)
		on Chain of Custody?	Yes		No 🗆	Adjusted?	
	at analyses were re		Yes N		No 🗀		
	ding times able to b		Yes 5		No 🗆	Checked by:	
(If no, notify	customer for autho	rization.)	× *			·	
Special Hand	lling (if applica	ble)					
		pancies with this order?	Yes []	No 🗆	NA 🗹	
Persor	Notified:	Date	CONTRACTOR	CORMOCCOLINGO	niolitifambilitifamat		
By Wh	iom:	Via:	eMail	Phone	Fax [In Person	
Regard	ding:						
Cllent	Instructions:					-	
17. Additional re	emarks:						
18. Cooler Info							
Cooler No	o Temp °C Co		Seal Date	Sign	ed By		
	1.0 900	u 169	**********************				



