District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505State of New Mexico State of New Mexico Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a cop to the appropriate NMOCD District Office.	the
Pit, Below-Grade Tank, or	
2741 Proposed Alternative Method Permit or Closure Plan Application	
Type of action: LIS- 11122 Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method MAR 0 9 2015 MAR 0 9 2015 or proposed alternative method	
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request	
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinand	ces.
I. Operator: BP America Production Company OGRID #:778	
Address:200 Energy Court, Farmington, NM 87401	
Facility or well name: Martinez Gas Com A 1	
API Number:3004511122 OCD Permit Number:10363	
U/L or Qtr/QtrN Section32 Township32N Range10W County:San Juan	
Center of Proposed Design: Latitude 36.93722 Longitude -107.90885 NAD: □1927 ⊠ 1983	
Surface Owner: 🗌 Federal 🗌 State 🖾 Private 🗌 Tribal Trust or Indian Allotment	
2. Pit: Subsection F, G or J of 19.15.17.11 NMAC	
Temporary: Drilling Workover	
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no	
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	
String-Reinforced	
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D	
Below-grade tank: Subsection I of 19.15.17.11 NMAC Tank C	
Volume:95.0bbl Type of fluid:Produced water	
Tank Construction material: Steel Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	
\Box Visible sidewalls and liner \Box Visible sidewalls only \boxtimes Other Single walled/double bottomed; side walls not visible	
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.



Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)

Chain link, six feet in height, two strands of barbed wire at top (*Required if located within 1000 feet of a permanent residence, school, hospital, institution or church*)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify_

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

Screen Netting Other

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

Signs: Subsection C of 19.15.17.11 NMAC

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

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks. **General siting** Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. Yes No NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells □ NA Yes No Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. □ NA NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance Yes No 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 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Yes No Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. (Does not apply to below grade tanks) Yes No Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Yes No Within a 100-year floodplain. (Does not apply to below grade tanks) FEMA map **Below Grade Tanks** Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured Yes No 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 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, Yes No or plava lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map: Visual inspection (certification) of the proposed site

Form C-144

Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes No
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 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 N 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 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC 	cuments are NMAC 15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
II. 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 Deperating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.10 NMAC	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	

4

 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 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 Muisance 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 19.15.17.9 NMAC and 19.15.17.13 NMAC	uocuments are
13.	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fi	luid Management Pit
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	
 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 sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P 19.15.17.10 NMAC for guidance.	
 Ground water is less than 25 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	□ Yes □ No □ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
 Ground water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	□ Yes □ No □ NA
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No
 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopta pursuant to NMSA 1978, Section 3-27.3, a summaded. Within confirmation or wetting in advantace mine. Within the area overlying a advantace mine. Yee \overline No Within the area overlying a naturaface mine. Within the area overlying a naturaface mine. Yee \overline No Within a multiple within the NM EMNRD-Mining and Mineral Division Yee \overline No Within a multiple within a multiple with the NM EMNRD-Mining and Mineral Division Yee \overline No Within a 100-year flocophine. Yee \overline No Yee \overline No FIRM A map Yee \overline No No Yee \overline No Stite Columer Plan Checklist: (91:51.7.13 NMAC) Instructions: Each of the following terms must be attached to the closure plan. Please inflicate, the eleck mark in the box, that the elecaments are attached. Stite Columer State Convertice Associations - head upon the appropriate requirements of Subsection L or 19.15.17.11 NMAC Construction Sampling Plan (Parificab) - head upon the appropriate requirements of Subsection L or 19.15.17.13 NMAC State Column Simple Plan (Parificab) - head upon the appropriate requirement of Subsection L or 19.15.17.13 NMAC Disease Entity Name and Provinsite requirements of Subsection L or 19.15.17.13 NMAC Subsection L or 19.15.17.13 NMAC Disease Entity Name Add Provinsite requirements of Subsection L or 19.15.17.13 NMAC Subsection L or 19.15.17.13 NMAC Disease Entity Name Add Provin			
Writen confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Writen a confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Writen a confirmation or verification or map from the NM EMNRD-Mining and Mineral Resources; USGS; NM Geological Seciety: Togeographic map Writen a 100-year Boodplain. FieldA map Press		ten approval obtained from the municipality	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 10 Acyaer floodplain. FEM Anag Yes No The flood of the floodplain. FEM Anag Yes No The flood of the floodplain. He appropriate requirements of 19.15.17.13 NMAC Yes No Constranced on the appropriate requirements of 19.15.17.13 NMAC No NAC Option of the floodplain floodplain. He requirements of 19.15.17.13 NMAC NAC Waste Material Sampling Plain - based upon the appropriate requirements of Subsection 10 (19.15.17.13 NMAC Nac Nac Soil Cover Design - based upon the appropriate requirements of Subsection 10 (19.15.17.13 NMAC	Within the area overlying a subsurface mine.Written confirmation or verification or map from the NM EMNI	RD-Mining and Mineral Division	Yes No
Society: Topographic map Within a 100-year floadplain. FEMA map Vest In No Vest IN Vest IN No Vest IN	Within an unstable area.		
Within a 100-year floodplain.		of Geology & Mineral Resources; USGS; NM Geological	
ⁿⁿ -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 must in the box, that the documents are attached. ⁿⁿ -Site Closure Plan Checklist: (19.15.17.13 NMAC) Constructions: Each of the following items must be attached to the closure plan. Please indicate, by a check must in the box, that the documents are attached. ⁿⁿ -Site Closure Plan Checklist: (19.15.17.13 NMAC) ⁿⁿ -Site Reclamation Plan - hosed upon the appropriate requirements of 19.15.17.13 NMAC ⁿⁿ -Site Reclamation Plan - hosed upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ⁿⁿ -Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ⁿⁿ -Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ⁿⁿ -Application Certification: 1 hereby certification: 1 hereby certification Certification: 1 hereby certific			
On-Stac 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 must in the box, that the documents are attached. Dy a check must in the box, that the documents are attached. Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Furial Trench (if applicable) based upon the appropriate requirements of Subsection A (19.15.17.13 NMAC Construction/Design Plan of Furial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Furial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Deposed Facility Name and Permi Number (in Figuids, driftling tudies and drift curings or in case on-site closure standards cannot be achieved) Bic Gover Design - based upon the appropriate requirements of 19.15.17.13 NMAC Revegetian Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Brevegetian Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Bis Reclamation Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Brevegetian Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Bis Reclamation Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Brevegetian Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Bis Reclamation Plan - based upon the appropriate requirements of 19.15.17.13 NMAC			
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):	On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requi Proof of Surface Owner Notice - based upon the appropriate requi Construction/Design Plan of Burial Trench (if applicable) based u Construction/Design Plan of Temporary Pit (for in-place burial of Protocols and Procedures - based upon the appropriate requirement Confirmation Sampling Plan (if applicable) - based upon the appropriate requirement Disposal Facility Name and Permit Number (for liquids, drilling f Soil Cover Design - based upon the appropriate requirements of S Re-vegetation Plan - based upon the appropriate requirements of S Site Reclamation Plan - based upon the appropriate requirements of S	opriate requirements of 19.15.17.10 NMAC rements of Subsection E of 19.15.17.13 NMAC upon the appropriate requirements of Subsection K of 19.15.17. a drying pad) - based upon the appropriate requirements of 19. ths of 19.15.17.13 NMAC opriate requirements of 19.15.17.13 NMAC rements of 19.15.17.13 NMAC huids and drill cuttings or in case on-site closure standards cann- ubsection H of 19.15.17.13 NMAC bubsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
Name (Print):	The second se		
Signature: Date: e-mail address: Telephone: Image: Telephone: Telephone: Image: Telephone: Telephone: Image: Telephone: Approval Image: Telephone: Approval Image: Telephone: Approval Image: Telephone: Approval Image: Telephone: Approval Date: Image: Telephone: OCD Representative Signature: Image: Telephone: OCD Permit Number: Image: Telephone: OCD Permit Number: Image: Telephone: OCD Permit Number:			ef.
e-mail address: Telephone: 1% OCD Approval: Permit Application (including closure plan) for Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Closure Plan (only) Approval Date: 4/14/2015 Title: Generative 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. 2% Closure Method: Closure Completion Date: 4/24/2009	Name (Print):	Title:	
Is. OCD Approval: Permit Application (including: closure plan) OCD Conditions (see attachment) OCD Representative Signature: OTM Approval Date: 4//14/2015 Title: OCD Permit Number: Approval Date: 4//14/2015 Title: OCD Permit Number: OCD Permit Number: Image: 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 Method: Image: Closure Completion Date: 4/24/2009	Signature:	Date:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: OTH Approval Date: 4/14/2015 Title: OCD Permit Number: Approval Date: 4/14/2015 12. OCD Permit Number: OCD Permit Number: 12. OCD Permit Number: OCD Permit Number: 13. 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. 20. Closure Method: Closure Completion Date:	e-mail address:	Telephone:	
Title:	18. OCD Approval: Permit Application (including closure plan)	Closure Plan (only) OCD Conditions (see attachment)	
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. 20. Closure Method: Nature Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soit Backfilling and Cover Installation Revergetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	<u>OCD Approva</u> . I remit Appreadon (metading closure plan)		
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. 20. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. 21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (if equired for on-site closure) Disposal Facility Name and Permit Number Soit Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)			2015
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. Zo. Closure Method: Q Closure Completion Date:4/24/2009 Zo. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Closure is closure for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soit Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) Ploto Documentation)	OCD Representative Signature:	Approval Date: <u>4/14/</u> 3	2015
20. Closure Method: □ On-Site Closure Method □ If different from approved plan, please explain. 21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. □ Proof of Closure Notice (surface owner and division) □ Proof of Deed Notice (required for on-site closure for private land only) □ Plot Plan (for on-site closures and temporary pits) ○ Confirmation Sampling Analytical Results (if applicable) ○ Disposal Facility Name and Permit Number ○ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique ○ Site Reclamation (Photo Documentation)	OCD Representative Signature: Jona D. Kelly Title: Compliance Officer	OCD Permit Number:	2015
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain. 21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	OCD Representative Signature: Title: <u>Compliance</u> Closure Completion ; 19. 19. Closure Report (required within 60 days of closure completion): 19. Instructions: Operators are required to obtain an approved closure pla The closure report is required to be submitted to the division within 60	Approval Date: <u>4/14/2</u> OCD Permit Number:	the closure report.
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)	OCD Representative Signature: Title: <u>Compliance</u> Closure Completion ; 19. 19. Closure Report (required within 60 days of closure completion): 19. Instructions: Operators are required to obtain an approved closure pla The closure report is required to be submitted to the division within 60	Approval Date: <u>4/14/2</u> OCD Permit Number: 15.17.13 NMAC In prior to implementing any closure activities and submitting days of the completion of the closure activities. Please do not nd the closure activities have been completed.	the closure report.
$V_{1} = V_{1} = V_{2} = V_{2} = V_{1} = V_{1$	OCD Representative Signature: Yelly Title: Completion 19. Closure Report (required within 60 days of closure completion): 19. Instructions: Operators are required to obtain an approved closure plat The closure report is required to be submitted to the division within 60 section of the form until an approved closure plan has been obtained at 20. Closure Method: Image: Submitted to the division and Removal On-Site Closure Method	Approval Date: 4/14/3 OCD Permit Number:	the closure report. complete this

Operator Closure Certification:

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

Name (Print):Jeff Peace	Title: Field Environmental Coordinator
Signature: off Pooel	Date:March 5, 2015
e-mail address:peace.jeffrey@bp.com	Telephone:(505) 326-9479

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>Martinez Gas Com A 1, BGT Tank C (95 bbl)</u> <u>API No. 3004511122</u> <u>Unit Letter N, Section 32, T32N, R10W</u>

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

General Closure Plan

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

No notice was made due to misunderstanding of the BGT notice requirements at that time.

BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.
 No notice was made due to misunderstanding of the BCT notice requirements at

No notice was made due to misunderstanding of the BGT notice requirements at that time.

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

- e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

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

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

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

- BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.
 All equipment associated with the 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, Tank C	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	ND
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	0.077
TPH	US EPA Method SW-846 418.1	100	20.5
Chlorides	US EPA Method 300.0 or 4500B	250 or background	24

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

Soil under the BGT was sampled and TPH, BTEX and chloride levels were below the stated limits. Sampling data is attached.

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

- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
 Sampling results indicate no release occurred.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

The area under the BGT was backfilled with clean soil and is still within the active well area.

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

The area over the BGT is still within the active well area. This area will be reclaimed as part of final reclamation when 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 over the BGT is still within the active well area. This area will be reclaimed as part of final reclamation when 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 over the BGT is still within the active well area. This area will be reclaimed as part of final reclamation when 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.

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 revegetation.

BP will notify NMOCD when re-vegetation is successful.

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

Certification section of C-144 has been completed.

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

	., =	.,		St	anta Fe	, NM 875	05		
			Rele	ease Notific	cation	and Co	orrective A	ction	
						OPERAT	FOR	🗌 Initia	al Report 🛛 Final Report
Name of Co					(Contact: Jef	f Peace		
Address: 20	00 Energy	Court, Farmi		M 87401]	Felephone N	No.: 505-326-94	79	
		nez Gas Com					e: Natural gas w		
Surface Ow	ner: Privat	te		Mineral C)wner: P	rivate		API No	. 3004511122
				1			FASE		
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County: San Juan
N	32	32N	10W	990	South		1,650	West	
		Lati	itude_3	6.93722		Longitud	e107.90885		
				NAT	URE	OF RELI			
Type of Relea		1	05111	1.0			Release: N/A		Recovered: N/A
		w grade tank –	95 bbl, T	ank C			lour of Occurrence	e: Date and	Hour of Discovery:
Was Immedia	ate Notice (Yes] No 🛛 Not Re	equired	If YES, To	wnom?		
By Whom?			L		1	Date and H	our		
Was a Watero	course Read	ched?					olume Impacting th	he Watercourse	
			Yes 🛛	No		, , , ,	- Parting t		
If a Watercou	irse was Im	pacted, Descri	ibe Fully *	ż					
the BGT. Soi	il analysis r	resulted in TPI	H, BTEX :	and chloride belo	w standar	rds. Analysis	s results are attach	ned.	o ensure no soil impacts from
backfilled and	d compacte	d and is still w	vithin the a	active well area.					he excavated area was
regulations al public health should their o or the enviror	Il operators or the envir operations h nment. In a	are required to ronment. The nave failed to a	o report ar acceptanc adequately OCD accep	nd/or file certain r ce of a C-141 repo investigate and r	elease no ort by the emediate	NMOCD ma contamination	nd perform correct arked as "Final Re on that pose a thre e the operator of r	tive actions for rele eport" does not reli eat to ground water responsibility for co	uant to NMOCD rules and eases which may endanger eve the operator of liability surface water, human health ompliance with any other
	1 00	0					OIL CONS	SERVATION	DIVISION
Signature:	left	Peoce							
	Jaff D	2			A	Approved by	Environmental Sp	pecialist:	
Printed Name	. Jen Peac	C							
Title: Field E	nvironmen	tal Coordinato	r		ŀ	Approval Dat	e:	Expiration I	Date:
E-mail Addre	ess: peace.je	effrey@bp.cor	n			Conditions of	Approval:		Attached
Date: March		ate ICNI		05-326-9479					
Attach Addu	tional She	ets If Necess	ary						

DD	BLAGG ENGIN	IEERING, INC.		
CLIENT: BP	P.O. BOX 87, BLOOM	,	3	API #: 3004511122
	(505) 632	-1199		
FIELD REPORT:	BGT CONFIRMATION TEMP. PIT CLC (other)	DSURE / RELEASE INVESTIGATIO	N	PAGE No: 1 of 1
SITE INFORMATION				DATE STARTED: 04/20/09
	P: 32N RNG: 10W PM: NM			DATE FINISHED:
	650'W SE/SW LEASE TYPE: PROD. FORMATION: MV CC			ENVIRONMENTAL SPECIALIST: JCB
REFERENCE POINT				926 GL ELEV.: 6,072'
	GPS COORD.: 36.937			ARING FROM W.H.: 126', S78E
2)				ARING FROM W.H.:
3)	GPS COORD.:		DISTANCE/BE	ARING FROM W.H.:
4)	GPS COORD .:		DISTANCE/BE	ARING FROM W.H.:
5)	GPS COORD.:		DISTANCE/BE	ARING FROM W.H.:
LAB INFORMATION:	CHAIN OF CLISTODY RECC	RD(S): ENVIROI	TECH	
1) SAMPLE ID: 95 BGT 5 pt. @				418.1/8015B/8021B/4500B (CI)
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:	
5) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:	
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LC PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / C DENSITY (COHESIVE CLAYS & SILTS): SOFT MOISTURE: DRY SLIGHTLY MOIST / MOIST / W	OSE FIRM DENSE / VERY DENSE COHESINE / MEDIUM PLASTIC / HIGHLY PLASTIC / FIRM / STIFF / VERY STIFF / HARD	HC ODOR DETECTED: YE	ES NO EXPL	
): NA ft. X NA	ft. X NA ft.		cavated (if applicable); NA
EXCAVATION DIMENSIONS (if applicable)): <u>NA</u> ft. X <u>NA</u>	ft. X <u>NA</u> ft.	cubic yards ex	cavated (if applicable): <u>NA</u> PLOT PLAN
SHESKEICH			^	circle: Attached
			N	
			'	MISCELL. NOTES
\oplus				
WELL HEAD		WOODEN R.W.		SW - SINGLE WALLED
				DOUBLE BOTTOM
	PBGTL	BERM		
	T.B. ~ 6' B.G.		_	
			_	
			-	
			-	
			-	
			S.P.D.	
	VATION DEPRESSION; B.G. = BELOW GRADE; B S BELOW-GRADE TANK LOCATION; SPD = SAMP			
TRAVEL NOTES: CALLOUT:			& 04/21/09)

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Blagg/BP	Project #:	94034-0010
Sample ID:	95 BGT 5-pt @ 6'	Date Reported:	04-27-09
Laboratory Number:	49753	Date Sampled:	04-21-09
Chain of Custody No:	6858	Date Received:	04-23-09
Sample Matrix:	Soil	Date Extracted:	04-24-09
Preservative:	Cool	Date Analyzed:	04-24-09
Condition:	Intact	Analysis Needed:	TPH-418.1
Parameter	Conce (mg/	ntration /kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocar	bons 20.	5	9.7

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Martinez GC A #1.

Analyst

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EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg/BP 95 BGT 5-pt @ 6' 49753 6858 Soil Cool Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	94034-0010 04-24-09 04-21-09 04-23-09 04-23-09 04-24-09 8015 TPH
Parameter		Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5	- C10)	ND	0.2
Diesel Range (C10 -	C28)	ND	0.1
Total Petroleum Hydi	rocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Martinez GC A #1

Analyst

Vistu muleter Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/BP		Project #:		94034-0010
Sample ID:	95 BGT 5-pt @ 6'		Date Reported:		04-27-09
Laboratory Number:	49753		Date Sampled:		04-21-09
Chain of Custody:	6858		Date Received:		04-23-09
Sample Matrix:	Soil		Date Analyzed:		04-24-09
Preservative:	Cool		Date Extracted:		04-23-09
Condition:	Intact		Analysis Requested:		BTEX
				Det.	
		Concentration		Limit	
Parameter		(ug/Kg)		(ug/Kg)	
Benzene		ND		0.9	
Toluene		7.2		1.0	
Ethylbenzene		4.1		1.0	
p,m-Xylene		49.2		1.2	
o-Xylene		16.7		0.9	
Total BTEX		77.2			

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Martinez GC A #1

Analyst

vister m Walter Review



Chloride

Total Chlor	rido		24.0						
Paramete	er		Concentration (mg/Kg)						
		maar	chair of custody.	0000					
Condition:		Intact	Chain of Custody:	6858					
Preservative:		Cool	Date Analyzed:	04-24-09					
Sample Matrix:	1	Soil	Date Received:	04-23-09					
_ab ID#:		49753	Date Sampled:	04-21-09					
Sample ID:		95 BGT 5-pt @ 6'	Date Reported:	04-27-09					
Client:		Blagg/BP	Project #:	94034-00					

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Martinez GC A #1.

Analyst

Musthen Waters Review



EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

Client: Sample ID; Laboratory Number: Sample Matrix: Preservative: Condition:		QA/QC QA/QC 04-24-TPH.QA/Q Freon-113 N/A N/A	C 49753	Project #: Date Reported Date Sampled Date Analyzed Date Extracted Analysis Need	N/A 04-27-09 N/A 04-24-09 04-24-09 TPH		
Calibration	I-Cal Date 04-06-09	C-Cal Date 04-24-09	I-Cal RF: 1,510	C-Cal RF: 1,560	% Difference 3.3%	Accept. Range +/- 10%	
Blank Conc. (mg/Kg) TPH			Concentration ND		Detection Lim 9.7	it	
Duplicate Conc. (mg/Kg) TPH			Sample 20.5	Duplicate 18.1	% Difference 11.7%	Accept. Range +/- 30%	
Spike Conc. (mg/Kg) TPH		Sample 20.5	Spike Added 2,000	Spike Result 1,690	% Recovery 83.6%	Accept Range 80 - 120%	

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Samples 49753 - 49760 and 49791.

Analyst

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EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	04-24-09 QA/0	QC	Date Reported	1	04-24-09
Laboratory Number:	49752		Date Sampled:		N/A
Sample Matrix:	Methylene Chlor	ide	Date Received	N/A	
Preservative:	N/A		Date Analyzed:		04-24-09
Condition:	N/A		Analysis Reque	TPH	
	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9681E+002	9.9720E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0068E+003	1.0072E+003	0.04%	0 - 15%
Blank Conc. (mg/L - mg/Kg)		Concentration		Detection Limit	
Gasoline Range C5 - C10	11-	ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range	
Gasoline Range C5 - C10	10.7	10.6	0.9%	0 - 30%	
Diesel Range C10 - C28	6.4	6.3	1.6%	0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept, Range
Gasoline Range C5 - C10	10.7	250	256	98.1%	75 - 125%
Diesel Range C10 - C28	6.4	250	245	95.7%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 49746 - 49748 and 49750 - 49753.

Analyst

prister mulater Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	N/A 04-24-BT QA/QC 49752 Soil N/A N/A		Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis:		N/A 04-27-09 N/A N/A 04-24-09 BTEX				
Calibration and	I-Cal RF	C-Cal RF:	%Diff.	Blank	Detect.				
Detection Limits (ug/L)		Accept Rang	e 0 - 15%	Conc	Limit				
Benzene	7.0871E+006	7.1013E+006	0.2%	ND	0.1				
oluene	6.4663E+006	6.4792E+006	0.2%	ND	0.1				
thylbenzene	5 5557E+006	5.5668E+006	0.2%	ND	0.1				
,m-Xylene	1.4632E+007	1.4662E+007	0.2%	ND	0.1				
-Xylene	5.3483E+006	5.3590E+006	0.2%	ND	0.1				
Puplicate Conc. (ug/Kg) Jenzene Joluene	Sample 8.1 43.0	Duplicate 8.4 41.5	3.7% 3.5%	Accept Range 0 - 30% 0 - 30%	Detect Limit 0.9 1.0				
thylbenzene	52.6	50.4	4.2%	0 - 30%	1.0				
,m-Xylene -Xylene	256 33.8	252 32.6	1.6% 3.6%	0 - 30% 0 - 30%	1.2 0.9				
pike Conc. (ug/Kg)	Sample	Amount Spiked		% Recovery	Accept Range				
enzene		50.0	50.0	07 484					
	8.1	50.0	56.6	97.4%	39 - 150				
oluene	43.0	50.0	87.5	94.1%	46 - 148				
thylbenzene	52.6	50.0	101	98.8%	32 - 160				
,m-Xylene	256	100	353	99.4%	46 - 148				
-Xylene	33.8	50.0	80.7	96.3%	46 - 148				

ND - Parameter not detected at the stated detection limit.

References.

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996. Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 49746 - 49748 and 49750 - 49753.

Analyst

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CHAIN OF CUSTODY RECORD

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Client: Project Name / Location:										ANIAL	Veie			TEDO												
BLASS/BA	2		MARTINE	E2 G	C Aª)				ANALYSIS / PARAMETERS																
Client Address: Sampler Name:									21)	1a	T	T														
	J. BLAGG							TPH (Method 8015)	BTEX (Method 8021)	826	S															
Client Phone No.: Client No.:										por	RCRA 8 Metals	noir		TCLP with H/P		÷.	ш		1	tact						
				94034-010						4-010				Meth	(Me	Meth	8 N	/ AI		with		TPH (418.1)	CHLORIDE		lor of strengt	Sample Intact
Sample No./	Sample		I ao No	5	Sample	No./Volume	Pre	servat	ive H	EX	00	RA	ttion	5	LP N	PAH	H (12			Idun					
Icentification	Date	Time		-	Matrix	of Containers	Hype	HCI	1ª	8	12	1 M	ő	RCI	F	PA	F	Ö	 _	0	ñ ő					
5-,70 24	1/21/09	0855	- 49753	Soil) Solid	Sludge Aqueous	1 - 403			×	×							×	\times			1-					
				Soil	Sludge							-	-													
				Solid Soil	Aqueous		-			-	-	-	-	-		-			 -	-	-					
				Solid	Aqueous																					
				Soil Solid	Sludge Aqueous																					
				Soil Solid	Sludge Aqueous																					
				Soil Solid	Sludge Aqueous																_					
				Soil Solid	Sludge Aqueous																					
				Soil	Sludge		t			1										-						
				Soil	Sludge		T				-						-									
				Soil	Sludge				-	-	1	-	-			-			-	+	-					
				Solid	Aqueous																					
Relinquished by: (Sign	ature)				Date	Time		Recei	ved by	: (Sigr	nature)	_	-					Date	2	Time					
Relinguistied by: (Sign	legy				1/23/09	1505			6	Ň	2		10			-			 4/23	109	150					
Relinguished by: (Sign	iatur ¢) /						F	Recei	ved by	: (Sigt	ature)			C											
Relinquished by: (Sign	ature)						F	Recei	ved by	: (Sigr	nature)														
					ENV	RO	TE	C	Н	IN	C.															
			5796 U	.S. Hig	hway 64	Farming	ytor	ı, NM	1 874	01 •	Tel	505	-632-	061	5											



