District 1
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

10/3
/.

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

Modification	oit, closed-loop syste to an existing permi- only submitted for a	em, below-grade tank, o	or propose	
Instructions: Please submit one application (Fo		tual nit classed laan syste	m halow a	grade tank or alternative request
Please be advised that approval of this request does not relieve environment. Nor does approval relieve the operator of its res	the operator of liability	should operations result in	pollution	of surface water, ground water or the
Operator: BP AMERICA PRODUCTION COMPA	\NY	OGRID #: 77	8	
Address: 200 Energy Court, Farmington, NM 874	401			
Facility or well name: GALLEGOS CANYON UNIT	542			
· · · · · · · · · · · · · · · · · · ·		Permit Number:		
U/L or Qtr/Qtr E Section 27.0				San Juan County
Center of Proposed Design: Latitude 36.7007	•	-	-	· · · · · · · · · · · · · · · · · · ·
Surface Owner: Federal State Private Tribal				NAD 1903
Surface Owner. Pederal State Trivate Tribat	Trust of Indian Anoth	—		
Pit: Subsection F or G of 19.15.17.11 NMAC				RCVD JAN 7'14
Temporary: Drilling Workover		•		OIL CONS. DTV.
Permanent Emergency Cavitation P&A				DIST. 3
Lined Unlined Liner type: Thickness	_mil [] LLDPE [HDPE □ PVC □ Ou	ner	
☐ String-Reinforced				·
Liner Seams: Welded Factory Other		Volume:bbl	Dimensio	ons: L x W x D
3.				
Closed-loop System: Subsection H of 19.15.17.111	NMAC			
Type of Operation: P&A Drilling a new well intent)	Workover or Drilling	(Applies to activities which	ch require	prior approval of a permit or notice of
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Hau				
Lined Unlined Liner type: Thickness	mil	E 🗌 HDPE 🗌 PVC 🔲	Other	
Liner Seams: Welded Factory Other		_		
4.				
■ Below-grade tank: Subsection I of 19.15.17.11 NM	IAC <u>Tank ID:</u> A	<u> </u>		
Volume: 95.0bbl Type of fluid: F	roduced Water			
Tank Construction material: Steel				
Secondary containment with leak detection Visil	ble sidewalls, liner, 6-i	inch lift and automatic over	erflow shu	t-off
☐ Visible sidewalls and liner ▼ Visible sidewalls only				
Liner type: Thicknessmil H				
Cher type. Therefore intt				
5.				
Alternative Method:				
Submittal of an exception request is required. Exceptions	must be submitted to	the Santa Fe Environmen	tal Bureau	office for consideration of approval.

Form C-144

Oil Conservation Division

Page 1 of 5

6. 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, institution or church) □ Four foot height, four strands of barbed wire evenly spaced between one and four feet ■ Alternate. Please specify 4' Hogwire with single barbed wire	hospital,
7. 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)	
8. 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	
9. Administrative Approvals 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: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
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 acce, material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approach office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	▼ Yes □ No
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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ▼ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, 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 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 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ 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

Form C-144 Oil Conservation Division

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
attached.
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:
12. Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
Climatological Factors Assessment
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Quality Control/Quality Assurance Construction and Installation Plan ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H₂S, 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
14. 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 ☐ Closed-loop System ☐ 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 (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.
Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable), based upon the appropriate requirements of Subscation F of 10.15.17.13 NMAC
 Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F 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 I of 19.15.17.13 NMAC ★ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or H. Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and		
facilities are required.	a	
• • • • • • • • • • • • • • • • • • • •	Permit Number:	
	Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas Yes (If yes, please provide the information below) No	that will not be used for future serv	vice and operations?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of S Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 N Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.	MAC	a
17. 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. Rec provided below. Requests regarding changes to certain siting criteria may require administrative a considered an exception which must be submitted to the Santa Fe Environmental Bureau office for demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	pproval from the appropriate dist	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from ne	arby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from ne	arby 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 ne	arby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercour lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	se or lakebed, sinkhole, or playa	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	time of initial application.	☐ Yes ☐ No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five househousering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the	at the time of initial application.	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covere adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the section of the municipality.	·	☐ Yes ☐ No
Within 500 feet of a wetland US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certi-	fication) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Divi	sioл	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resou Society; Topographic map	arces; USGS; NM Geological	☐ 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 by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15. Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 1 Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirem Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the 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 F of 19 Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19 Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 N Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 N	17.10 NMAC 9.15.17.13 NMAC nents of 19.15.17.11 NMAC ne appropriate requirements of 19. ection F of 19.15.17.13 NMAC 9.15.17.13 NMAC ase on-site closure standards cannot MAC	15.17.11 NMAC

19.
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): Jeffrey Peace Title: Field Environmental Advisor
Signature: Date:
e-mail address: Peace. Jeffrey@bp.com Telephone: 505-326-9479
OCD Approval: Permit Application (including closure plan Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 2/3/12
Title: Environmental Envirole OCD Permit Number:
The Continue value.
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:
12.
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.
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than
two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) \(\subseteq \) No
Required for impacted areas which will not be used for future service and operations:
Site Reclamation (Photo Documentation)
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
24. <u>Closure Report Attachment Checklist</u> : <u>Instructions</u> : 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)
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
Site Reclamation (Photo Documentation) On-site Closure Location: Latitude 36.7007 Longitude -108.0936 NAD: 1927 🗷 1983
25.
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print). Jeff Peace Tille Field Environmental Advisor
Name (Print): Jeff reace Title: Field Environmental Advisor
Name (Print): Jeff Peace Title: Field Environment Advisor Signature: Date: January 6,2014 e-mail address: peace. Zeffrey @ bp. com Telephone: (505) 326-9479
e-mail address: peace. Zeffrey @ bf. com Telephone: (505) 326-9479

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**

Revised August 8, 2011

Form C-141

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.

			Rele	ease Notif	icatio	n and Co	rrective A	ction					
						OPERA'	ГOR		Initi	al Report	\boxtimes	Final Report	
Name of Co						Contact: Jet			¥1.111				
		Court, Farmi		M 87401		Telephone No.: 505-326-9479 Facility Type: Natural gas well							
racinty Nai	ne: Galleg	os Canyon U	Jnit 542			Facility Typ	be: Natural gas v	well					
Surface Ow	ner: Privat	te		Mineral	Owner:	Federal			API No	3004529	039		
				LOC	CATIO	N OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	l .	Vest Line	County: S	an Juan	ı	
E	27	29N	12W	1,600	North	l	820	West				ĺ	
L	<u>.</u>	<u>.</u>		26.5005		T	100.0006	<u> </u>		I			
		La	titude	36.7007	· · · · · · · · · · · · · · · · · · ·	Longitud	e108.0926						
				NA	TURE	OF REL					<u>. </u>		
Type of Rele			05111				Release: N/A			Recovered:			
Was Immedi		v grade tank – Given?	95 bbl			If YES, To	Hour of Occurrence Whom?	ce:	Date and	Hour of Dis	covery	:	
was minedi	aic rotice (Yes [No 🛛 Not	Required		WHOM:						
By Whom?						Date and I							
Was a Water	course Read			7		If YES, Ve	olume Impacting	the Wate	rcourse.				
			Yes 🗵										
If a Watercon	urse was Im	pacted, Descr	ibe Fully.'	t									
												-	
							the BGT was do sis results are atta		g removal	to ensure no	soil im	npacts from	
backfilled an	d compacte		ed with th	e LPT serving			anderneath the BC s on the same sha						
regulations a public health should their or or the enviro	Il operators or the envi operations h nment. In a	are required t ronment. The nave failed to	o report and acceptant adequately OCD accept	nd/or file certain ce of a C-141 re investigate and	n release report by the direction of the	notifications a ne NMOCD m te contaminat	knowledge and a nd perform corre- narked as "Final R ion that pose a that the operator of	ctive acti Report" d reat to gr	ions for rel oes not rel ound wate	leases which lieve the ope r, surface w	may en rator of ater, hu	ndanger f liability man health	
	^ ^	0	_				OIL CON	SERV	ATION	DIVISION	<u>NC</u>		
Signature:	Joff	Pool	2										
	810					Approved by	Environmental S	Specialist	t :				
Printed Nam	e: Jeff Peac	<u>e</u>						· 					
Title: Field E	environmen	tal Advisor				Approval Da	te:		Expiration	Date:			
E-mail Addr	ess: peace.je	effrey@bp.co	m			Conditions o	f Approval:			Attached	i 🗆		
Date: Januar	ry 6, 2014		Phone:	505-326-9479									

^{*} Attach Additional Sheets If Necessary

CLIENT: BP	P.O. BOX 87, BLO	•	113	API #: 3004 TANK ID	
Cooperation Cooperation	<u>A</u>				
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELE	ASE INVESTIGATION / OTHER:		PAGE #: 1	of 1
SITE INFORMATION	I: SITE NAME: GCU #542			DATE STARTED:	11/12/13
QUAD/UNIT: E SEC: 27 TWP:	29N RNG: 12W PM: N	M CNTY: SJ ST:	NM_	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 1,600'N / 820"	NDIAN	ENVIRONMENTAL			
LEASE #:	RMAN	SPECIALIST(S):	NJV		
REFERENCE POINT	WELL HEAD (W.H.) GPS COO	RD.: 36.71559 X 10	08.09824	GL ELEV.:	5,377'
					67', N59E
2)	GPS COORD.:		DISTANCE/BEA	ARING FROM W.H.:	
3)	ARING FROM W.H.:				
4)	GPS COORD.:		DISTANCE/BE/	ARING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB	USED: HALL			OVM READING
1) SAMPLE ID: 5 PC-TB @ 6' (95) SAMPLE DATE: 11/12/13	SAMPLETIME: 1500 LAB ANALY	sis: 418.1/8	8015B/8021B/300.	O(CI) NA
	· · · · · · · · · · · · · · · · · · ·				
SOIL COLOR: MOI COHESION (ALL OTHERS): NON COHESIVE SLIGHTI CONSISTENCY (NON COHESIVE SOILS): L MOISTURE: DRY/SLIGHTLY MOIST MOIST V SAMPLE TYPE: GRAB COMPOSITE	PERATE BROWN Y COHESIVE / COHESIVE / HIGHLY COHESIVE DOSE / FIRM / DENSE / VERY DENSE JET / SATURATED / SUPER SATURATED # OF PTS. 5	PLASTICITY (CLAYS): NON PLASTIC / SLF DENSITY (COHESIVE CLAYS &	GHTLY PLASTIC / (SILTS): SOFT	COHESIVE / MEDIUM PLASTIC / FIRM / STIFF / VERY S	TIFF / HARD
APPARENT EVIDENCE OF A RELEASE OF ADDITIONAL COMMENTS: BGT RESTI	DBSERVED AND/OR OCCURRED: YES		GRAVEL. G	AS WELL RECENTLY	'PLUGGED &
				•	
SITE SKETCH		PLOT PLAN circle: att	_ ↑ OVM	CALIB. GAS = NA	ppm RF = 0.52 ppm NA
SE .	/(x x x)	T.B. ~ 6'	P	O #:	6
			ļ		
		OMBRESSOR			BLANK
MARKER			Ori Tan ID	CD Appr. date(s): 0 OVM = Organic Va ppm = parts per m BGT Sidewalls Visible	2/13/12 apor Meter nillion e: Y / N
HATTA DOT DELONGO DE TANGES EVENTES	ON DEDDECOMANDO DEL CAMADA DE D. DEL CAMADA				
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BE	LOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DE	ESIGNATION; R.W. = RETAINING WALL; NA	- NOT M		
-	'E AAYTT' DAA - DOORTE AAYTT' 2R - 2INGTE ROTTOW! DE		<u>i</u>	<u> </u>	

Analytical Report

Lab Order 1311542

Date Reported: 11/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB@6'(95)

Project: GCU #542

Collection Date: 11/12/2013 3:00:00 PM

Lab ID: 1311542-001

Matrix: SOIL

Received Date: 11/13/2013 9:47:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed B	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS			Analyst: B	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 11/15/2013 11:58:47 AM 1	0337
Surr: DNOP	85.4	66-131	%REC	1 11/15/2013 11:58:47 AM 1	0337
EPA METHOD 8015D: GASOLINE R	ANGE			Analyst: N	ISB
Gasoline Range Organics (GRO)	ND	. 4.6	mg/Kg	1 11/16/2013 3:39:18 AM 1	0349
Surr: BFB	96.1	74.5-129	%REC	1 11/16/2013 3:39:18 AM 1	0349
EPA METHOD 8021B: VOLATILES				Analyst: N	ISB
Benzene	ND	0.046	mg/Kg	1 11/16/2013 3:39:18 AM 1	0349
Toluene	ND	0.046	mg/Kg	1 11/16/2013 3:39:18 AM 1	0349
Ethylbenzene	ND	0.046	mg/Kg	1 11/16/2013 3:39:18 AM 1	10349
Xylenes, Total	ND	0.093	mg/Kg	1 11/16/2013 3:39:18 AM 1	10349
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1 11/16/2013 3:39:18 AM 1	10349
EPA METHOD 300.0: ANIONS				Analyst: J	IRR
Chloride	. ND	1.5	mg/Kg	1 11/15/2013 1:08:23 PM 1	0359
EPA METHOD 418.1: TPH				Analyst: B	BCN
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1 11/19/2013 1	0341

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 7

- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

С	hain-d	of-Cus	stody Record	Lurn-Aroung	ı ime:					HA			NV	/T E	20	NF	1EN	TA	•
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard Project Name:	Rush					AN	IAL	YS	SIS	S L	.AE		RAT		
Mailing A	ddress:	P.O. BO	X 87	-	Scu # 5	42		490)1 Hav										
		BLOOM	FIELD, NM 87413	Project #:	- · · · · · · · · · · · · · · · · · · ·				l. 505							410	7		
Phone #:		(505) 63	32-1199				3	in pro-	1			Anal	ysis	Rec	ues	ţ,	,e	3, 5	
email or F	ax#:			Project Manag	ger:			f	N								न		
QA/QC Pa ☑ Stand	=		Level 4 (Full Validation)		NELSON V	ELEZ	WB5-(8021B)	only)	- Janear		15)		PO4,SO	PCB's			ter - 300.1)		e
Accredita	tion:			Sampler:	NELSON VI	ELEZ MV	78	(Gas	80,	न न	8270SIMS)		102,	308			/ wa		m d
□ NELAF)	☐ Other		On Ice:	Y LYês	□-No	1 1 1 1 1 1 1 1 1 1	ᇤ		504	327(۱. ا	03,1	} / s		<u>₹</u>	0.0		e Sa
	Туре)	·		Sample Temp	erature: 📗	0		+ <u>+</u>	8 8	B	or 8	stals	Ž,	cide	₹	ΞĮ	<u>≓</u> - 3(<u>ا</u> و ا	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALING: 13115 42	BTEX +-MFB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	EDB (Method 504.1)	PAH (8310 or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water	Grab sample	5 pt. composite sample
ulizliz	1500	SOIL	5PC-TBC 61 (95)	4021	CooL	-001			V .								$\sqrt{}$		$\sqrt{}$
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Date:	Time:	Relinquish	eg/by:	Received by:	<i>,</i>) ,	Date Time		narks											
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Date:	Time:	Relinquish	ed by: V	Received by:	11/12/	Date Time			der:								401 EVH011	3GT2	_
1, 	If necessa	samples s	submitted to Hall Environmental may be s	ubcontracted to other	accredited laboratorie	s. This serves as notice	of this p	ossibili	y. Any s	ub-cont	racted	data w	ill be o	dearly	notate	ed on th	ne analytic	al repor	rt.

Hall Environmental Analysis Laboratory, Inc.

WO#:

1311542

20-Nov-13

Client:

Blagg Engineering

Project:

GCU #542

Sample ID MB-10359

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 10359

RunNo: 14851

Prep Date: 11/15/2013

Analysis Date: 11/15/2013

Units: mg/Kg HighLimit

SeqNo: 428021

Analyte

Result PQL SPK value SPK Ref Val %REC LowLimit

RPDLimit

Qual

Chloride

ND 1.5

Sample ID LCS-10359

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 10359

RunNo: 14851

Prep Date: 11/15/2013

SeqNo: 428022

Units: mg/Kg

Analyte

Analysis Date: 11/15/2013

%RPD

%RPD

RPDLimit Qual

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Chloride 14 1.5 15.00 95.8 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Sample pH greater than 2 for VOA and TOC only.

Not Detected at the Reporting Limit ND

Reporting Detection Limit RL

P

Page 2 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1311542

20-Nov-13

Client:

Blagg Engineering

Project:

GCU #542

Sample ID MB-10341

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID: PBS

Batch ID: 10341

RunNo: 14899

Prep Date: 11/14/2013 Analysis Date: 11/19/2013

PQL

20

SeqNo: 429708

Units: mg/Kg HighLimit

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

%RPD

%RPD

RPDLimit

Petroleum Hydrocarbons, TR

Sample ID LCS-10341

ND

SampType: LCS

TestCode: EPA Method 418.1: TPH

Client ID: LCSS Prep Date: 11/14/2013 Batch ID: 10341

Result

100

RunNo: 14899

80

Units: mg/Kg

120

Analyte

Analysis Date: 11/19/2013 **PQL**

20

SeqNo: 429709 SPK value SPK Ref Val %REC

LowLimit HighLimit

RPDLimit Qual

Petroleum Hydrocarbons, TR Sample ID LCSD-10341

SampType: LCSD

TestCode: EPA Method 418.1: TPH

Client ID: LCSS02

Batch ID: 10341

RunNo: 14899

104

Prep Date: 11/14/2013

Analysis Date: 11/19/2013

SeqNo: 429710 %REC

Units: mg/Kg

Qual

RPDLimit

Analyte Petroleum Hydrocarbons, TR Result 100 SPK value SPK Ref Val

0

LowLimit

HighLimit 120 %RPD 0

20

20

100.0

100.0

104

80

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits 1
- 0 RSD is greater than RSDlimit RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2 for VOA and TOC only. P
- Reporting Detection Limit RL

Holding times for preparation or analysis exceeded

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Hall Environmental Analysis Laboratory, Inc.

ND

8.2

10

10.00

WO#:

1311542

20-Nov-13

Client:

Blagg Engineering

Project:

Diesel Range Organics (DRO)

Surr: DNOP

GCU #542

Sample ID LCS-10337	SampType: LCS Batch ID: 10337			TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: LCSS Prep Date: 11/14/2013	Batch Analysis Da				RunNo: 14826 SeqNo: 427453			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	44	10	50.00	0	87.4	62.1	127					
Surr: DNOP	4.4		5.000		87.3	66	131					
Sample ID MB-10337	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics			
Client ID: PBS	Batch	ID: 10	337	F	RunNo: 14826				•			
Prep Date: 11/14/2013	Analysis Da	ite: 1 1	1/15/2013	S	SeqNo: 4	27454	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		

81.6

66

131

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1311542

20-Nov-13

Client:

Blagg Engineering

Project:	GCU #54	12									
Sample ID	MB-10349	SampTy	/pe: MI	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: 10	349	F	RunNo: 1	4837				
Prep Date:	11/14/2013	Analysis Da	ate: 1	1/15/2013	9	SeqNo: 4	27700	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	ND 900	5.0	1000		89.8	74.5	129			
Sample ID	LCS-10349	SampTy	/pe: LC	s	Tes	tCode: EI	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch	ID: 10	349	F	RunNo: 1	4837				
Prep Date:	11/14/2013	Analysis Date: 11/15/2013			SeqNo: 427707			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	25	5.0	25.00	0	99.2	74:5	126			
Surr: BFB		980		1000		98.0	74.5	129			
Sample ID	1311542-001AMS	SampTy	/pe: M \$	S	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	5PC-TB@6'(95)	Batch	ID: 10	349	RunNo: 14837						
Prep Date:	11/14/2013	Analysis Da	ate: 1	1/15/2013	5	SeqNo: 4	27737	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit_	Qual
Ū	e Organics (GRO)	26	4.8	23.83	0	108	76	156			
Surr: BFB		960		953.3		100	74.5	129			
Sample ID	1311542-001AMSI	D SampTy	/pe: M \$	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	5PC-TB@6'(95)	Batch	ID: 10	349	F	RunNo: 1	4837				
Prep Date:	11/14/2013	Analysis Da	ate: 1	1/15/2013	S	SeqNo: 4	27738	Units: mg/h	(g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	24	4.8	23.85 954.2	0	101 99.6	76 74.5	156 129	6.46 0	17.7 0	
Surr: BFB		950									

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

1.0

1.1

3.2

1.1

0.050

0.050

0.10

1.000

1.000

3.000

1.000

WO#:

1311542

20-Nov-13

Client:

Blagg Engineering

Project:

GCU #542

Sample ID MB-10349 MK	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: R14837		F	RunNo: 1	4837					
Prep Date:	Analysis D	ate: 1	1/15/2013	S	SeqNo: 4	27778	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			
Sample ID LCS-10349 MK	SampType: LCS			Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: LCS\$	Batch	ID: R1	4837	F	RunNo: 1	4837				
Prep Date:	Analysis D	ate: 1	1/15/2013	S	SeqNo: 4	27779	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			
Sample ID MB-10349	SampType: MBLK TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batch	ID: 10	349	F	RunNo: 1	4837				
Prep Date: 11/14/2013	Analysis D	ate: 1	1/15/2013	\$	SeqNo: 4	27782	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050							•	
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120	·-		
Sample ID LCS-10349	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 10	349	F	RunNo: 1	4837				
Prep Date: 11/14/2013	Analysis D	ate: 1	1/15/2013	S	SeqNo: 4	27783	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	101	80	120			

Sample ID	1311530-001AMS	SampType: MS TestCode: EPA Method 8021B: Volatiles									
Client ID:	BatchQC	Batc	Batch ID: 10349 RunNo: 14837								
Prep Date:	11/14/2013	Analysis [Date: 11	1/15/2013	S	SeqNo: 4	27785	Units: mg/K	(g		
Analyte .	-	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	•	1.1	0.047	0.9425	0	114	67.3	145			
Toluene		1.0	0.047	0.9425	0	111	66.8	144			
Ethylbenzene		1.2	0.047	0.9425	0	129	61.9	153			
Xylenes, Total		3.9	0.094	2.828	0.5758	119	65.8	149			

0

0

0

104

105

105

113

80

80

80

80

120

120

120

120

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Ε
- Analyte detected below quantitation limits
- О RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

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RL

Hall Environmental Analysis Laboratory, Inc.

WO#:

1311542

20-Nov-13

Client:

Blagg Engineering

Project:

GCU #542

Sample ID 1311530-001AMS

SampType: MS

TestCode: EPA Method 8021B: Volatiles

Client ID: **BatchQC** Batch ID: 10349

RunNo: 14837

Prep Date: 11/14/2013

Analysis Date: 11/15/2013

PQL

SeqNo: 427785

Units: mg/Kg

%RPD

Analyte

Result

1.4

SPK value SPK Ref Val %REC_ LowLimit

HighLimit

RPDLimit

Qual

Surr: 4-Bromofluorobenzene

0.9425

145

80 120

S

Sample ID 1311530-001AM	I SD SampT	ype: M \$	SD	Tes						
Client ID: BatchQC	Batch	1D: 10	349	F	RunNo: 1	4837				
Prep Date: 11/14/2013	Analysis D	ate: 11	1/15/2013	S	SeqNo: 4	27786	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.047	0.9434	0	106	67.3	145	6.80	20	
Toluene	1.0	0.047	0.9434	0	107	66.8	· 144 ·	3.33	20	
Ethylbenzene	1.2	0.047	0.9434	0	125	61.9	153	2.75	20	
Xylenes, Total	3.8	0.094	2.830	0.5758	115	65.8	149	2.71	20	
Surr: 4-Bromofluorobenzene	1.4		0.9434		152	80	120	0	0	S

Qualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

P

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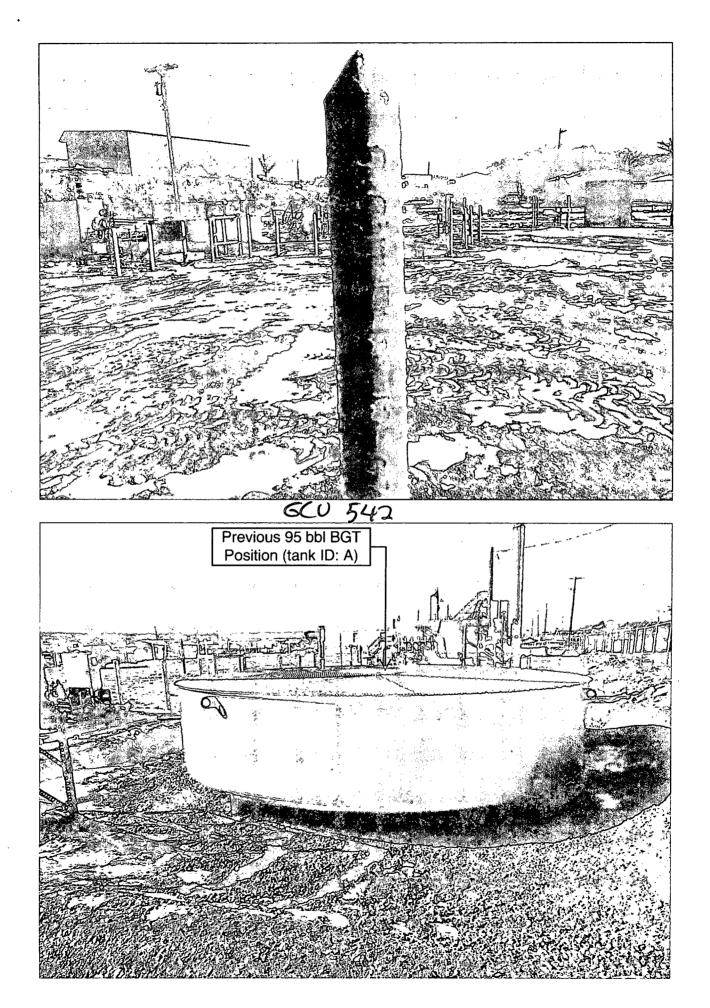


Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work	Order Number: 131154	2	RcptN	lo: 1
Received by/date: 11 13	2013		•	
Logged By: Ashley Gallegos 11/13/20	13 9:47:00 AM	A		
Completed By: Ashley Gallegos 11/13/20	13,1:39:19 PM	A		•
Reviewed By: 10	1/2013	0		
Chain of Custody	12012			
1. Custody seals intact on sample bottles?	Yes	. No	Not Present N	,
Is Chain of Custody complete?	Yes		Not Present	
3. How was the sample delivered?	Courie			
<u>Log In</u>		ا بد		
Was an attempt made to cool the samples?	Yes	y i No L	NA :	
5. Were all samples received at a temperature of >0° C	to 6.0°C Yes	No No	NA	
6. Sample(s) in proper container(s)?	Yes	✓ No		
7. Sufficient sample volume for indicated test(s)?	Yes	✓ No		
8. Are samples (except VOA and ONG) properly present	ved? Yes	v ¹ No ∷		
9. Was preservative added to bottles?	Yes	,i No 🗸	NA :	
10.VOA vials have zero headspace?	Yes	No []	No VOA Vials	į.
11. Were any sample containers received broken?	Yes	No Y		
			# of preserved bottles checked	
12. Does paperwork match bottle labels?	Yes	✓. No	; for pH:	<2 or >12 unless noted)
(Note discrepancies on chain of custody) 13 Are matrices correctly identified on Chain of Custody	? Yes	✓ No ¹	Adjusted?	
14 Is it clear what analyses were requested?		✓: No -		
15. Were all holding times able to be met?	Yes		Checked b	y:
(If no, notify customer for authorization.)				
Special Handling (if applicable)	r	····		.2
16. Was client notified of all discrepancies with this order	? Yes	No	NA •	
Person Notified:	Date:			
By Whom:	Via: eMail	· Phone Fa	x In Person	•
Regarding:	·	0.44-b0344b13444411334,		•
Client Instructions:	*** * * *** *** * * * * * * * * * * * *			
17. Additional remarks:				
18. Cooler Information			ı	
Cooler No. Temp °C Condition Seal Intact	Seal No Seal Dat	e Signed By		
1.0 10000 1183	<u> </u>	i	1	



BP AMERICA PRODUCTION COMPANY

SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

Gallegos Canyon Unit 542
API No. 3004529309
Unit Letter E, Section 27, T29N, R12W

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 notice requirements. BP did not think notice was necessary if BGT is removed during plugging and abandoning operations. Closure notices will be made for all BGT closures from this point forward.
- 2. BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.

No notice was made due to misunderstanding of the notice requirements. BP did not think notice was necessary if BGT is removed during plugging and abandoning operations. Closure notices will be made for all BGT closures from this point forward.

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)
 - d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
 - e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
 - f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
 - g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
 - h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
 - i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
 - j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
 - k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids)

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

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

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

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

All equipment associated with the BGT has been removed.

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

Constituents	Testing Method	Release Verification	Sample
		(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	ND
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	ND
TPH	US EPA Method SW-846 418.1	100	ND
Chlorides	US EPA Method 300.0 or 4500B	250 or background	ND

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

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

- 7. BP shall notify the division District III office of its results on form C-141. C-141 is attached.
- 8. If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
 - Sampling results indicate no release occurred.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

The area under the BGT was backfilled with clean soil and is covered by the LPT. This site was P&A'd and is shared with the GCU 154E. The area will be reclaimed when the adjacent 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.

This area will be reclaimed when the adjacent well has been plugged and abandoned and will be done as part of final reclamation.

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

This area will be reclaimed when the adjacent well has been plugged and abandoned and will be done as part of final reclamation.

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

This area will be reclaimed when the adjacent well has been plugged and abandoned and will be done as part of final reclamation.

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

BP will seed the area when the well site is reclaimed.

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

BP will notify NMOCD when re-vegetation is successful.

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

 Closure report on C-144 form is included.
- 16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.