

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Jeff Peace	
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479	
Facility Name: Vandewart Com 3E	Facility Type: Natural gas well	
Surface Owner: Federal	Mineral Owner: Federal	API No. 3004525966

LOCATION OF RELEASE

Unit Letter A	Section 13	Township 29N	Range 8W	Feet from the 790	North/South Line North	Feet from the 940	East/West Line East	County: San Juan
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Latitude 36.73013 Longitude -107.62211

NATURE OF RELEASE

Type of Release: oil/condensate	Volume of Release: unknown	Volume Recovered: none
Source of Release: below grade tank – 95 bbl	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: July 1, 2014; 12:00 PM
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. Soil analysis resulted in BTEX and chlorides below standards, but TPH was 670 ppm by Method 418.1 and 630 ppm by Method 8015D, indicating a release occurred.		
Describe Area Affected and Cleanup Action Taken.* Visible observation and sampling results indicated a historical release occurred. Impacted soil was excavated and transported to a landfarm for treatment. Excavation continued until remaining soil samples were below 100 ppm TPH, which is the cleanup standard for this site. Approximately 592 cubic yards of impacted soil were removed and remediation was complete on September 16, 2014. The excavated area was backfilled and compacted and will be reclaimed since the well has been plugged and abandoned. Attached are sampling data, a site map showing the outline of the excavated area, and a C-138 report from the landfarm.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: <i>Jeff Peace</i>	OIL CONSERVATION DIVISION	
Printed Name: Jeff Peace	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Environmental Coordinator	Approval Date: <i>4/13/15</i>	Expiration Date:
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval:	Attached ☐
Date: February 27, 2015	Phone: 505-326-9479	

* Attach Additional Sheets If Necessary

405 1510352685

39

BP America Production Company

Vandewart Com 003E

(A) Sec 13 – T29N – R8W

API: 30-045-25966

San Juan County, New Mexico

Summary Record of Impacted Soil Remediation

July 1, 2014 Confirmation sampling conducted of the 95 barrel below-grade tank (BGT) following the approved New Mexico Oil Conservation Division's (NMOCD) bgt permit closure plan.

July 7, 2014 Preliminary lab report delivered to Blagg Engineering, Inc. (BEI). The following table below shows the 2010 NMOCD 19.15.17.13 NMAC (pit rule) closure constituents, testing methods, and standards (release verification). Lab results of the grab sample collected below bgt bottom are shown in the far right column.

Constituents	Testing Method	Release Verification (mg/Kg)	1 @ 7.5' (95) (mg/Kg)
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	0.11
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	10.31
TPH	US EPA Method SW-846 418.1	100	670
Chlorides	US EPA Method 300.0 or 4500B	250 or background	< 30*

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. * - Lab Reporting Detection Limit value. 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.

BEI requested the laboratory to analyze the confirmation sample for TPH using US EPA Method 8015B. The results revealed total TPH = 630 mg/Kg, in which gasoline range organics (GRO) = 290 mg/Kg and Diesel Range Organics (DRO) = 340 mg/Kg.

Since an apparent release was physically observed beneath the BGT, a preliminary investigation to delineate the lateral extent of the impacts using a backhoe to advance test holes was also performed on July 1st. (see attached Field Report and aerial map for details).

September 9, 2014 Initiated site remediation by excavation with trackhoe. Evaluation of NMOCD's "Guidelines for Remediation of Leaks, Spills and Releases", dated August 13, 1993, for site ranking criteria indicated a closure standard of 100 mg/Kg for TPH based on groundwater depth estimated at greater than 100 feet from the known impacted soil vertical depth and lateral distance to Surface Water Body less than 200 lateral feet.

- September 10, 2014 Collection of soil & bedrock surface samples from excavation. Collected 5 point composite sample (**5pcs**) from southern base (S. Base), 5pcs from south sidewall (SW Sidewall), 3 point composite sample (**3pcs**) from west sidewall (SE Wall), and 3pcs from east sidewall (E Wall).
- September 11, 2014 Collection of soil & bedrock surface samples from excavation. Collected 3pcs from north sidewall (North Wall), 3pcs from east sidewall (East Wall), 3pcs from west sidewall (West Wall), and 3pcs from northern base (North Base).
- September 15, 2014 Additional excavation of north sidewall. Collected 3pcs from north sidewall (North Wall).
- September 16, 2014 Additional excavation of east sidewall and southeast corner. Collected 5pcs from east sidewall (SE Sidewall). Preliminary lab report furnished revealed TPH using US EPA Method 8015B was non detected at reporting limits (< 25 mg/Kg) from 3pcs of north sidewall (sample ID: North Wall 3PC @ 7').
- September 17, 2014 Preliminary lab report furnished revealed TPH using US EPA Method 8015B was non detected at reporting limits (< 25 mg/Kg) from 5pcs of east sidewall (sample ID: SE Sidewall 5-pt. @ 5'). Completed backfilling operation after verbally communicating lab results with NMOCD Aztec office. Final dimensions of excavated area was 54 ft. x 72 ft. x 7± ft. average depth. Total of impacted soil transported to landfarm was approximately 592 cubic yards.

BP - Vandewart Com 003E

Imagery Date: 11/17/2013.



Please refer to following
summary for Letter & Number
Designation for composite
samples obtained.

Excavation Perimeter
as of
09/11/2014

Excavation Center
~95 ft., S25.5W
from well head

Additional Excavation
as of
09/16/2014

Google earth

70 ft



TABLE 1

BP AMERICA PRODUCTION COMPANY

VANDEWART COM # 3E

Unit Letter A, Section 13, T29N, R12W - API Number: 30-045-25966

(Cleanup Activity of Unconfirmed Source)

SAMPLE ID & MAP LETTER- NUMBER DESIGNATION		SAMPLE DATE	SAMPLE TIME	SAMPLING COLLECTION	FIELD OVM READING (ppm)	TPH - cumulative (mg/Kg)	Benzene (mg/Kg)	BTEX - cumulative (mg/Kg)	Soil Description / Comments
S. Base 5-pt. @ 6'	1	09/10/14	0903	Composite	0.0	5.5	ND	ND	5 point composite sample, mostly very pale orange, varying gray to black in isolated patches throughout base, competent bedrock (claystone-siltstone)
SW Sidewall 5-pt. @ 5'	A	09/10/14	0908	Composite	0.0	ND	ND	ND	5 point composite sample, 15 ft. spacing between sample points, mostly grayish orange, slightly friable bedrock - bottom 1 -1.5 ft. of sidewall (claystone-siltstone)
SE Wall 3-pt. @ 5'	B	09/10/14	0910	Composite	171	176.8	ND	0.59	3 point composite sample, 15 ft. spacing between sample points, mostly grayish orange, light gray to black bedrock at bottom 1 -1.5 ft. of sidewall (claystone-siltstone), slightly friable
E Wall 3-pt. @ 5'	C	09/10/14	0914	Composite	322	293.9	ND	3.83	3 point composite sample, 15 ft. spacing between sample points, mostly grayish orange, light gray to black bedrock at bottom 1 -1.5 ft. of sidewall (claystone-siltstone), slightly friable
North Wall 3PC @ 7'	D	09/11/14	1355	Composite	2.3	331.9	ND	1.63	3 point composite sample, 15 ft. spacing between sample points, mostly dark brown to olive gray, friable bedrock (claystone-siltstone)
East Wall 3PC @ 6'	E	09/11/14	1405	Composite	453	89.1	ND	0.97	3 point composite sample, 20 ft. spacing between sample points, mostly dark gray, friable bedrock (claystone-siltstone), apparent hydrocarbon odor detected physically in all sample points
West Wall 3PC @ 7'-8'	F	09/11/14	1400	Composite	231	5.00	ND	ND	3 point composite sample, 20 ft. spacing between sample points, mostly dark brown to olive gray, friable bedrock (claystone-siltstone)
North Base 3PC @ 8'	Z	09/11/14	1410	Composite	206	ND	ND	ND	3 point composite sample, 15-20 ft. spacing between sample points, mostly grayish orange to olive gray/black mixed, bedrock (sandstone) - very hard, competent
North Wall 3PC @ 7'	H	09/15/14	1000	Composite	NA	ND	ND	ND	Excavation extended another 5 feet north. 3 point composite sample, 15 ft. spacing between sample points, soil & bedrock characteristics similar to previous north wall notes above
SE Sidewall 5-pt. @ 5'	I	09/16/15	0833	Composite	0.0	ND	ND	ND	Excavation extended another 5 to 7 feet east and southeast areas. 5 point composite sample, 15-20 ft. spacing between sample points, soil & bedrock characteristics similar to previous east wall notes above

NMOC RELEASE CLOSURE STANDARDS (soils) -	100	100	10	50
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Notes:

OVM -	Organic vapor meter or photo-ionization detector (PID).	ppm -	Parts per million.
TPH -	Total petroleum hydrocarbons by US EPA Method 8015B.	mg/Kg -	Milligram per kilogram.
BTEX -	Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.	ND -	Not detected at Reporting Limit.
NMOC -	New Mexico Oil Conservation Division.	NA -	Not available or applicable.

NMOC RELEASE CLOSURE STANDARDS REFERENCE: "Guidelines for Remediation of Leaks, Spills and Releases" dated: August 13, 1993.

OVM CALIBRATION: RESPONSE FACTOR = 0.52, CALIBRATION GAS - 100 ppm ISOBUTYLENE.

OVM CALIBRATION DATA	DATE	TIME	READING	DATE	TIME	READING
	09/10/14	NA	NA	09/16/14	NA	NA
	09/11/14	1421	52.5			



BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-Sep-14 12:34

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S. Base 5-pt @ 6'	P409039-01A	Soil	09/10/14	09/10/14	Glass Jar, 4 oz.
SW Sidewall 5-pt @ 5'	P409039-02A	Soil	09/10/14	09/10/14	Glass Jar, 4 oz.
SE Wall 3-pt @ 5'	P409039-03A	Soil	09/10/14	09/10/14	Glass Jar, 4 oz.
E Wall 3-pt @ 5'	P409039-04A	Soil	09/10/14	09/10/14	Glass Jar, 4 oz.

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envirotech-inc.com
laboratory@envirotech-inc.com



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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-Sep-14 12:34

S. Base 5-pt @ 6'
P409039-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		97.6 %		50-150	1437010	09/10/14	09/10/14	EPA 8021B	
Surrogate: Bromochlorobenzene		86.5 %		50-150	1437010	09/10/14	09/10/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	5.50	5.00	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1437011	09/10/14	09/10/14	EPA 8015D	
Surrogate: o-Terphenyl		109 %		50-200	1437011	09/10/14	09/10/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	18.3	9.94	mg/kg	1	1437020	09/10/14	09/10/14	EPA 300.0	

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BP America Production Co.	Project Name:	Vandewart Com 3E	Reported: 12-Sep-14 12:34
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	

SW Sidewall 5-pt @ 5'
P409039-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		97.1 %		50-150	1437010	09/10/14	09/10/14	EPA 8021B	
Surrogate: Bromochlorobenzene		89.8 %		50-150	1437010	09/10/14	09/10/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1437011	09/10/14	09/10/14	EPA 8015D	
Surrogate: o-Terphenyl		95.2 %		50-200	1437011	09/10/14	09/10/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	157	9.86	mg/kg	1	1437020	09/10/14	09/10/14	EPA 300.0	

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Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-Sep-14 12:34

SE Wall 3-pt @ 5'
P409039-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1437010	09/10/14	09/10/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1437010	09/10/14	09/10/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1437010	09/10/14	09/10/14	EPA 8021B	
p,m-Xylene	0.45	0.10	mg/kg	1		1437010	09/10/14	09/10/14	EPA 8021B	
o-Xylene	0.14	0.05	mg/kg	1		1437010	09/10/14	09/10/14	EPA 8021B	
Total Xylenes	0.59	0.05	mg/kg	1		1437010	09/10/14	09/10/14	EPA 8021B	
Total BTEX	0.59	0.05	mg/kg	1		1437010	09/10/14	09/10/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		121 %		50-150		1437010	09/10/14	09/10/14	EPA 8021B	
Surrogate: Bromochlorobenzene		99.3 %		50-150		1437010	09/10/14	09/10/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	42.8	5.00	mg/kg	1		1437010	09/10/14	09/10/14	EPA 8015D	
Diesel Range Organics (C10-C28)	134	25.0	mg/kg	1		1437011	09/10/14	09/10/14	EPA 8015D	
Surrogate: o-Terphenyl		93.3 %		50-200		1437011	09/10/14	09/10/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	26.0	9.82	mg/kg	1		1437020	09/10/14	09/10/14	EPA 300.0	

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laboratory@envirotech-inc.com



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Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-Sep-14 12:34

E Wall 3-pt @ 5'
P409039-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Ethylbenzene	0.34	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
p,m-Xylene	3.22	0.10	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
o-Xylene	0.27	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Total Xylenes	3.49	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Total BTEX	3.83	0.05	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		119 %		50-150	1437010	09/10/14	09/10/14	EPA 8021B	
Surrogate: Bromochlorobenzene		98.1 %		50-150	1437010	09/10/14	09/10/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	82.9	4.99	mg/kg	1	1437010	09/10/14	09/10/14	EPA 8015D	
Diesel Range Organics (C10-C28)	211	25.0	mg/kg	1	1437011	09/10/14	09/10/14	EPA 8015D	
Surrogate: o-Terphenyl		91.4 %		50-200	1437011	09/10/14	09/10/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	13.7	9.88	mg/kg	1	1437020	09/10/14	09/10/14	EPA 300.0	

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Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-Sep-14 12:34

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1437010 - Purge and Trap EPA 5030A

Blank (1437010-BLK1)

Prepared: 09-Sep-14 Analyzed: 10-Sep-14

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.10	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	51.5		ug/L	50.0		103	50-150			
Surrogate: Bromochlorobenzene	48.1		"	50.0		96.2	50-150			

Duplicate (1437010-DUP1)

Source: P409035-01

Prepared: 09-Sep-14 Analyzed: 10-Sep-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.10	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	50.7		ug/L	50.0		101	50-150			
Surrogate: Bromochlorobenzene	47.9		"	50.0		95.8	50-150			

Matrix Spike (1437010-MS1)

Source: P409035-01

Prepared: 09-Sep-14 Analyzed: 10-Sep-14

Benzene	53.7		ug/L	50.0	ND	107	39-150			
Toluene	54.4		"	50.0	ND	109	46-148			
Ethylbenzene	51.8		"	50.0	ND	104	32-160			
p,m-Xylene	103		"	100	ND	103	46-148			
o-Xylene	52.2		"	50.0	ND	104	46-148			
Surrogate: 1,3-Dichlorobenzene	53.3		"	50.0		107	50-150			
Surrogate: Bromochlorobenzene	49.8		"	50.0		99.6	50-150			

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Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-Sep-14 12:34

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1437010 - Purge and Trap EPA 5030A

Blank (1437010-BLK1)

Prepared: 09-Sep-14 Analyzed: 10-Sep-14

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg

Duplicate (1437010-DUP1)

Source: P409035-01

Prepared: 09-Sep-14 Analyzed: 10-Sep-14

Gasoline Range Organics (C6-C10) ND 5.00 mg/kg

ND

30

Matrix Spike (1437010-MS1)

Source: P409035-01

Prepared: 09-Sep-14 Analyzed: 10-Sep-14

Gasoline Range Organics (C6-C10) 0.49 mg/L

0.450

0.02

104

75-125

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laboratory@envirotech-inc.com



BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-Sep-14 12:34

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1437011 - DRO Extraction EPA 3550M										
Blank (1437011-BLK1)				Prepared & Analyzed: 09-Sep-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	47.4		"	40.0		119	50-200			
LCS (1437011-BS1)				Prepared & Analyzed: 09-Sep-14						
Diesel Range Organics (C10-C28)	748	24.9	mg/kg	499		150	38-132			SPK1
Surrogate: o-Terphenyl	55.5		"	39.9		139	50-200			
Matrix Spike (1437011-MS1)				Source: P409036-01		Prepared & Analyzed: 09-Sep-14				
Diesel Range Organics (C10-C28)	359	24.9	mg/kg	499	ND	72.0	38-132			
Surrogate: o-Terphenyl	30.4		"	39.9		76.2	50-200			
Matrix Spike Dup (1437011-MSD1)				Source: P409036-01		Prepared & Analyzed: 09-Sep-14				
Diesel Range Organics (C10-C28)	381	24.9	mg/kg	499	ND	76.5	38-132	6.05	20	
Surrogate: o-Terphenyl	28.1		"	39.9		70.5	50-200			

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Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
12-Sep-14 12:34

Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1437020 - Anion Extraction EPA 300.0										
Blank (1437020-BLK1)				Prepared & Analyzed: 10-Sep-14						
Chloride	ND	9.85	mg/kg							
LCS (1437020-BS1)				Prepared & Analyzed: 10-Sep-14						
Chloride	489	9.96	mg/kg	498		98.3	90-110			
Matrix Spike (1437020-MS1)				Source: P409039-01 Prepared & Analyzed: 10-Sep-14						
Chloride	511	9.99	mg/kg	500	18.3	98.7	80-120			
Matrix Spike Dup (1437020-MSD1)				Source: P409039-01 Prepared & Analyzed: 10-Sep-14						
Chloride	520	9.87	mg/kg	494	18.3	102	80-120	1.58	20	

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CHAIN OF CUSTODY RECORD

17409

Client: BP AMERICA		Project Name / Location: VANDEWART COM 3E		ANALYSIS / PARAMETERS																																																																																													
Email results to: jeffcblagg@ADL.COM PEACE-Jeffery @ BP.COM		Sampler Name: J- BLAGG		<table border="1"> <tr> <th>TPH (Method 8015)</th> <th>BTEX (Method 8021)</th> <th>VOC (Method 8260)</th> <th>RCRA 8 Metals</th> <th>Cation / Anion</th> <th>RCI</th> <th>TCLP with H/P</th> <th>CO Table 910-1</th> <th>TPH (418.1)</th> <th>CHLORIDE</th> <th></th> <th></th> <th></th> <th></th> <th>Sample Cool</th> <th>Sample Intact</th> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td>FIELD OVM = 0.0</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Y</td> <td>Y</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td>FIELD OVM = 0.0</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td>FIELD OVM = 171</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td>FIELD OVM = 322</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>														TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact	X	X		FIELD OVM = 0.0					X						Y	Y	X	X		FIELD OVM = 0.0					X								X	X		FIELD OVM = 171					X								X	X		FIELD OVM = 322					X							
TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals															Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																																																																				
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X	X		FIELD OVM = 322					X																																																																																									
Client Phone No.: 505-320-1183		Client No.: 03143-0424																																																																																															
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative																																																																																												
					HNO ₃	HCl																																																																																											
S. BASE 5-pt @ 6'	9/10/2014	0903	P409039-01	1 x 4oz				X	X																																																																																								
SW SIDEWALL 5-pt @ 5'	"	0908	P409039-02	"				X	X																																																																																								
SE Wall 3-pt @ 5'	"	0910	P409039-03	"				X	X																																																																																								
E Well 3-pt @ 5'	"	0914	P409039-04	"				X	X																																																																																								
Relinquished by: (Signature) <i>Jeff Blagg</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time																																																																																						
				9/10/2014	1115					9/10/14	1115																																																																																						
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Sample Matrix																																																																																																	
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																																																																																																	
☐ Sample(s) dropped off after hours to secure drop off area.																																																																																																	
RUSH								7.3, 6.2, 16.8 6.8																																																																																									

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
15-Sep-14 14:11

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
North Wall 3PC @ 7'	P409048-01A	Soil	09/11/14	09/11/14	Glass Jar, 4 oz.
East Wall 3PC @ 6'	P409048-02A	Soil	09/11/14	09/11/14	Glass Jar, 4 oz.
West Wall 3PC @ 7'-8'	P409048-03A	Soil	09/11/14	09/11/14	Glass Jar, 4 oz.
North Wall 3PC @ 8'	P409048-04A	Soil	09/11/14	09/11/14	Glass Jar, 4 oz.

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Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
15-Sep-14 14:11

North Wall 3PC @ 7'
P409048-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
p,m-Xylene	1.51	0.10	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
o-Xylene	0.11	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Total Xylenes	1.63	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Total BTEX	1.63	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		108 %		50-150	1437022	09/12/14	09/12/14	EPA 8021B	
Surrogate: Bromochlorobenzene		94.5 %		50-150	1437022	09/12/14	09/12/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	37.9	4.99	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	294	30.0	mg/kg	1	1437021	09/12/14	09/12/14	EPA 8015D	
Surrogate: o-Terphenyl		125 %		50-200	1437021	09/12/14	09/12/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	22.5	9.95	mg/kg	1	1437026	09/12/14	09/12/14	EPA 300.0	

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Project Name: Vandewart Com 3E
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Project Manager: Jeff Blagg

Reported:
15-Sep-14 14:11

East Wall 3PC @ 6'
P409048-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
p,m-Xylene	0.86	0.10	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
o-Xylene	0.10	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Total Xylenes	0.97	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Total BTEX	0.97	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		99.6 %		50-150	1437022	09/12/14	09/12/14	EPA 8021B	
Surrogate: Bromochlorobenzene		99.5 %		50-150	1437022	09/12/14	09/12/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	17.7	5.00	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	71.4	34.9	mg/kg	1	1437021	09/12/14	09/12/14	EPA 8015D	
Surrogate: o-Terphenyl		100 %		50-200	1437021	09/12/14	09/12/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	18.2	9.94	mg/kg	1	1437026	09/12/14	09/12/14	EPA 300.0	

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Project Name: Vandewart Com 3E
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Project Manager: Jeff Blagg

Reported:
15-Sep-14 14:11

West Wall 3PC @ 7'-8'
P409048-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		98.2 %		50-150	1437022	09/12/14	09/12/14	EPA 8021B	
Surrogate: Bromochlorobenzene		101 %		50-150	1437022	09/12/14	09/12/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	5.00	5.00	mg/kg	1	1437022	09/12/14	09/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1437021	09/12/14	09/12/14	EPA 8015D	
Surrogate: o-Terphenyl		109 %		50-200	1437021	09/12/14	09/12/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	10.5	9.87	mg/kg	1	1437026	09/12/14	09/12/14	EPA 300.0	

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15-Sep-14 14:11

North Wall 3PC @ 8'
P409048-04 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1437022	09/12/14	09/12/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1437022	09/12/14	09/12/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1437022	09/12/14	09/12/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1		1437022	09/12/14	09/12/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1437022	09/12/14	09/12/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1437022	09/12/14	09/12/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1437022	09/12/14	09/12/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		97.3 %		50-150		1437022	09/12/14	09/12/14	EPA 8021B	
Surrogate: Bromochlorobenzene		97.8 %		50-150		1437022	09/12/14	09/12/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1		1437022	09/12/14	09/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1		1437021	09/12/14	09/12/14	EPA 8015D	
Surrogate: o-Terphenyl		103 %		50-200		1437021	09/12/14	09/12/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	ND	9.96	mg/kg	1		1437026	09/12/14	09/12/14	EPA 300.0	

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Project Number: 03143-0424
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Reported:
15-Sep-14 14:11

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1437022 - Purge and Trap EPA 5030A

Blank (1437022-BLK1)			Prepared & Analyzed: 11-Sep-14							
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.10	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	47.7		ug/L	50.0		95.4	50-150			
Surrogate: Bromochlorobenzene	46.6		"	50.0		93.1	50-150			

Duplicate (1437022-DUP1)			Source: P409041-01 Prepared & Analyzed: 11-Sep-14							
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.10	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	46.6		ug/L	50.0		93.1	50-150			
Surrogate: Bromochlorobenzene	47.6		"	50.0		95.2	50-150			

Matrix Spike (1437022-MS1)			Source: P409041-01 Prepared & Analyzed: 11-Sep-14							
Benzene	52.5		ug/L	50.0	ND	105	39-150			
Toluene	51.3		"	50.0	ND	103	46-148			
Ethylbenzene	51.4		"	50.0	ND	103	32-160			
p,m-Xylene	102		"	100	ND	102	46-148			
o-Xylene	51.2		"	50.0	ND	102	46-148			
Surrogate: 1,3-Dichlorobenzene	49.6		"	50.0		99.3	50-150			
Surrogate: Bromochlorobenzene	49.8		"	50.0		99.7	50-150			

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BP America Production Co.	Project Name:	Vandewart Com 3E	Reported: 15-Sep-14 14:11
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1437021 - DRO Extraction EPA 3550M										
Blank (1437021-BLK1)				Prepared & Analyzed: 11-Sep-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	53.3		"	40.0		133	50-200			
LCS (1437021-BS1)				Prepared & Analyzed: 11-Sep-14						
Diesel Range Organics (C10-C28)	500	25.0	mg/kg	499		100	38-132			
Surrogate: o-Terphenyl	40.7		"	39.9		102	50-200			
Matrix Spike (1437021-MS1)				Source: P409041-01	Prepared & Analyzed: 11-Sep-14					
Diesel Range Organics (C10-C28)	444	25.0	mg/kg	499	31.3	82.6	38-132			
Surrogate: o-Terphenyl	35.8		"	40.0		89.5	50-200			
Matrix Spike Dup (1437021-MSD1)				Source: P409041-01	Prepared & Analyzed: 11-Sep-14					
Diesel Range Organics (C10-C28)	518	25.0	mg/kg	499	31.3	97.5	38-132	15.4	20	
Surrogate: o-Terphenyl	38.1		"	39.9		95.5	50-200			

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Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
15-Sep-14 14:11

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1437022 - Purge and Trap EPA 5030A

Blank (1437022-BLK1)

Prepared & Analyzed: 11-Sep-14

Gasoline Range Organics (C6-C10) ND 5.00 mg/kg

Duplicate (1437022-DUP1)

Source: P409041-01

Prepared & Analyzed: 11-Sep-14

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg ND 30

Matrix Spike (1437022-MS1)

Source: P409041-01

Prepared & Analyzed: 11-Sep-14

Gasoline Range Organics (C6-C10) 0.41 mg/L 0.450 0.06 77.6 75-125

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
15-Sep-14 14:11

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1437026 - Anion Extraction EPA 300.0

Blank (1437026-BLK1)

Prepared & Analyzed: 12-Sep-14

Chloride	ND	9.98	mg/kg
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LCS (1437026-BS1)

Prepared & Analyzed: 12-Sep-14

Chloride	498	9.95	mg/kg	498	100	90-110
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Matrix Spike (1437026-MS1)

Source: P409048-01

Prepared & Analyzed: 12-Sep-14

Chloride	523	9.91	mg/kg	496	22.5	101	80-120
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Matrix Spike Dup (1437026-MSD1)

Source: P409048-01

Prepared & Analyzed: 12-Sep-14

Chloride	528	9.99	mg/kg	500	22.5	101	80-120	0.993	20
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CHAIN OF CUSTODY RECORD

3144

Client: BP AMERICA		Project Name / Location: VANEDART Com # 3E		ANALYSIS / PARAMETERS															
Client Address: JEFF BLAKE @ AOL.COM PEACE, JEFFREY @ BP.COM		Sampler Name: NELSON VEEZ																	
Client Phone No.: 505-320-1183		Client No.: 03143-0424																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	3 POINT COMPOSITE	Sample Cool	Sample Intact
NORTH WALL 3PC @ 7'	9/11/14	1355	P409048-01	SOIL	1-4oz		✓	✓	✓							✓	✓	✓	✓
EAST WALL 3PC @ 6'	9/11/14	1405	P409048-02	SOIL	1-4oz		✓	✓	✓							✓	✓	✓	✓
WEST WALL 3PC @ 7'-8'	9/11/14	1400	P409048-03	SOIL	1-4oz		✓	✓	✓							✓	✓	✓	✓
NORTH BASE 3PC @ 8'	9/11/14	1410	P409048-04	SOIL	1-4oz		✓	✓	✓							✓	✓	✓	✓
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
		9/11/14	1632			9/11/14	1632												
Relinquished by: (Signature)				Received by: (Signature)															
Relinquished by: (Signature)				Received by: (Signature)															
RUSH				ENVIROTECH INC.				23.7, 23.6, 26.3											
5796 U.S. Highway 64 • Farmington, New Mexico 87401 • (505) 632-0615																			



BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Vandemart Com #1E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 12:47

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
North Wall 3PC @ 7'	P409057-01A	Soil	09/15/14	09/15/14	Glass Jar, 4 oz.

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PO Box 22024
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Project Name: Vandemart Com #1E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 12:47

North Wall 3PC @ 7'
P409057-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1438005	09/15/14	09/16/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1438005	09/15/14	09/16/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1438005	09/15/14	09/16/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1438005	09/15/14	09/16/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1438005	09/15/14	09/16/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1438005	09/15/14	09/16/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1438005	09/15/14	09/16/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		91.9 %		50-150	1438005	09/15/14	09/16/14	EPA 8021B	
Surrogate: Bromochlorobenzene		92.1 %		50-150	1438005	09/15/14	09/16/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1438005	09/15/14	09/16/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg	1	1438001	09/15/14	09/16/14	EPA 8015D	
Surrogate: o-Terphenyl		93.5 %		50-200	1438001	09/15/14	09/16/14	EPA 8015D	

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Project Name: Vandemart Com #1E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 12:47

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1438005 - Purge and Trap EPA 5030A

Blank (1438005-BLK1)

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.10	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							

Surrogate: 1,3-Dichlorobenzene 0.0486 " 0.0499 97.4 50-150

Surrogate: Bromochlorobenzene 0.0483 " 0.0499 96.7 50-150

Duplicate (1438005-DUP1)

Source: P409057-01

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.10	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	

Surrogate: 1,3-Dichlorobenzene 0.0468 " 0.0499 93.7 50-150

Surrogate: Bromochlorobenzene 0.0461 " 0.0499 92.4 50-150

Matrix Spike (1438005-MS1)

Source: P409057-01

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Benzene	51.5		ug/L	50.0	ND	103	39-150			
Toluene	51.6		"	50.0	ND	103	46-148			
Ethylbenzene	51.6		"	50.0	ND	103	32-160			
p,m-Xylene	99.9		"	100	ND	99.9	46-148			
o-Xylene	50.6		"	50.0	ND	101	46-148			

Surrogate: 1,3-Dichlorobenzene 2.43 mg/kg 2.50 97.2 50-150

Surrogate: Bromochlorobenzene 2.42 " 2.50 96.9 50-150

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laboratory@envirotech-inc.com



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Project Name: Vandemart Com #1E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 12:47

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1438001 - DRO Extraction EPA 3550M										
Blank (1438001-BLK1)				Prepared & Analyzed: 15-Sep-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	39.2		"	39.9		98.2	50-200			
LCS (1438001-BS1)				Prepared & Analyzed: 15-Sep-14						
Diesel Range Organics (C10-C28)	535	25.0	mg/kg	499		107	38-132			
Surrogate: o-Terphenyl	43.5		"	39.9		109	50-200			
Matrix Spike (1438001-MS1)				Source: P409050-01		Prepared & Analyzed: 15-Sep-14				
Diesel Range Organics (C10-C28)	530	40.0	mg/kg	500	ND	106	38-132			
Surrogate: o-Terphenyl	42.7		"	40.0		107	50-200			
Matrix Spike Dup (1438001-MSD1)				Source: P409050-01		Prepared & Analyzed: 15-Sep-14				
Diesel Range Organics (C10-C28)	662	39.9	mg/kg	499	ND	133	38-132	22.2	20	D1, SPK1
Surrogate: o-Terphenyl	49.1		"	39.9		123	50-200			

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Project Name: Vandemart Com #1E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 12:47

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1438005 - Purge and Trap EPA 5030A

Blank (1438005-BLK1)

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg

Duplicate (1438005-DUP1)

Source: P409057-01

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg

ND

30

Matrix Spike (1438005-MS1)

Source: P409057-01

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Gasoline Range Organics (C6-C10) 0.46 mg/L

0.450

0.04

92.9

75-125

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Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 12:58

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SE Wall 5-pt @-5'	P409063-01A	Soil	09/16/14	09/16/14	Glass Jar, 4 oz.

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 Project Name: Vandewart Com 3E
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 17-Sep-14 12:58

SE Wall 5-pt @-5'
P409063-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1438005	09/16/14	09/16/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1438005	09/16/14	09/16/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1438005	09/16/14	09/16/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1		1438005	09/16/14	09/16/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1438005	09/16/14	09/16/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1438005	09/16/14	09/16/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1438005	09/16/14	09/16/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		87.9 %		50-150		1438005	09/16/14	09/16/14	EPA 8021B	
Surrogate: Bromochlorobenzene		87.4 %		50-150		1438005	09/16/14	09/16/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1		1438005	09/16/14	09/16/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1		1438009	09/16/14	09/16/14	EPA 8015D	
Surrogate: o-Terphenyl		119 %		50-200		1438009	09/16/14	09/16/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	35.5	9.98	mg/kg	1		1438006	09/16/14	09/16/14	EPA 300.0	

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Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 12:58

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1438005 - Purge and Trap EPA 5030A

Blank (1438005-BLK1)

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.10	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	0.0486		"	0.0499		97.4	50-150			
Surrogate: Bromochlorobenzene	0.0483		"	0.0499		96.7	50-150			

Duplicate (1438005-DUP1)

Source: P409057-01

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.10	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	0.0468		"	0.0499		93.7	50-150			
Surrogate: Bromochlorobenzene	0.0461		"	0.0499		92.4	50-150			

Matrix Spike (1438005-MS1)

Source: P409057-01

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Benzene	51.5		ug/L	50.0	ND	103	39-150			
Toluene	51.6		"	50.0	ND	103	46-148			
Ethylbenzene	51.6		"	50.0	ND	103	32-160			
p,m-Xylene	99.9		"	100	ND	99.9	46-148			
o-Xylene	50.6		"	50.0	ND	101	46-148			
Surrogate: 1,3-Dichlorobenzene	2.43		mg/kg	2.50		97.2	50-150			
Surrogate: Bromochlorobenzene	2.42		"	2.50		96.9	50-150			

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laboratory@envirotech-inc.com



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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 12:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1438005 - Purge and Trap EPA 5030A

Blank (1438005-BLK1)

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
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Duplicate (1438005-DUP1)

Source: P409057-01

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
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Matrix Spike (1438005-MS1)

Source: P409057-01

Prepared: 15-Sep-14 Analyzed: 16-Sep-14

Gasoline Range Organics (C6-C10)	0.46		mg/L	0.450	0.04	92.9	75-125			
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Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com

laboratory@envirotech-inc.com



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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 12:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1438009 - DRO Extraction EPA 3550M										
Blank (1438009-BLK1)				Prepared & Analyzed: 16-Sep-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	41.1		"	40.0		103	50-200			
LCS (1438009-BS1)				Prepared & Analyzed: 16-Sep-14						
Diesel Range Organics (C10-C28)	568	25.0	mg/kg	499		114	38-132			
Surrogate: o-Terphenyl	48.5		"	39.9		121	50-200			
Matrix Spike (1438009-MS1)				Source: P409063-01		Prepared & Analyzed: 16-Sep-14				
Diesel Range Organics (C10-C28)	740	30.0	mg/kg	499	ND	148	38-132			SPK1
Surrogate: o-Terphenyl	52.8		"	39.9		132	50-200			
Matrix Spike Dup (1438009-MSD1)				Source: P409063-01		Prepared & Analyzed: 16-Sep-14				
Diesel Range Organics (C10-C28)	726	29.9	mg/kg	499	ND	146	38-132	1.97	20	SPK1
Surrogate: o-Terphenyl	53.7		"	39.9		135	50-200			

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Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com



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Tulsa OK, 74121-2024

Project Name: Vandewart Com 3E
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
17-Sep-14 12:58

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1438006 - Anion Extraction EPA 300.0										
Blank (1438006-BLK1)				Prepared & Analyzed: 16-Sep-14						
Chloride	ND	9.98	mg/kg							
LCS (1438006-BS1)				Prepared & Analyzed: 16-Sep-14						
Chloride	497	9.96	mg/kg	498		99.8	90-110			
Matrix Spike (1438006-MS1)				Source: P409058-01 Prepared & Analyzed: 16-Sep-14						
Chloride	492	9.81	mg/kg	490	ND	100	80-120			
Matrix Spike Dup (1438006-MSD1)				Source: P409058-01 Prepared & Analyzed: 16-Sep-14						
Chloride	493	9.86	mg/kg	493	ND	99.9	80-120	0.157	20	

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laboratory@envirotech-inc.com

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District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

03143-0963

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: BP America Production Co. 200 Energy Ct. Farmington, NM 87401	
2. Originating Site: Vandewart Com 3E	Sept 2014
3. Location of Material (Street Address, City, State or ULSTR): QRT/QRT: NE/NE Unit: A Section: 13 T29N R08W	
4. Source and Description of Waste: hydrocarbon/condensate impacted soil from historical release on location	
Estimated Volume _____ yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) 592 yd ³ bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, Courtney Cochran, representative or authorized agent for BP America Production Company do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☐ Monthly ☐ Weekly ☐ Per Load ☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS Courtney Cochran, representative for BP America Production Company authorize Envirotech to complete the required testing/sign the Generator Waste Testing Certification. I, Kendra Runyon, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	
5. Transporter: Crossfire	

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit# NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield, NM.

Method of Treatment and/or Disposal:

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

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Kendra Runyon

TITLE: Waste Coordinator DATE: 9-10-14

SIGNATURE: Kendra Runyon

TELEPHONE NO.: 505-632-0615