

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 Subsequent Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Florance Gas Com J 016	Facility Type: Natural gas well

Surface Owner: Federal	Mineral Owner: Federal	API No. 3004509800
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LOCATION OF RELEASE

Unit Letter A	Section 6	Township 30N	Range 9W	Feet from the 1,010	North/South Line North	Feet from the 990	East/West Line East	County: San Juan
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Latitude 36.844942° Longitude -107.815430°

NATURE OF RELEASE

Type of Release: Produced Water/Condensate	Volume of Release: unknown	Volume Recovered: none
Source of Release: Below Grade Tank – 21 bbl; Tank B	Date and Hour of Occurrence: August 6, 2016 @ 8:00AM	Date and Hour of Discovery: August 8, 2016 @ 6:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Steve Moskal	Date and Hour:	<u>OIL CONS. DIV DIST. 3</u>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	<u>AUG 30 2016</u>

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. TPH was 3,000 ppm by Method 418.1 and 5,300 ppm by Method 8015D, indicating a release occurred. Delineation through soil borings indicated that the vertical extent of contamination is not removable through excavation. Soil vapor extraction points were installed.

Describe Area Affected and Cleanup Action Taken.* The BGT was removed. The site was fully delineated. A soil vapor extraction unit was installed in February 2016 after receiving a electrical connection that delayed the project. The soil vapor extraction unit will continue to operate and be monitored until remediation appears to be complete. Confirmation soil samples will be collected at a later date.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Steve Moskal	Approved by Environmental Specialist: 	
Title: Field Environmental Coordinator	Approval Date: <u>9/21/16</u>	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval: <u>Submit Bi-Annual Reports</u>	
Date: August 23, 2016	Attached <input checked="" type="checkbox"/>	
Phone: 505-326-9497		

* Attach Additional Sheets If Necessary

On progress of SVE.
#HCS1410755727

108

Smith, Cory, EMNRD

From: Smith, Cory, EMNRD
Sent: Wednesday, September 21, 2016 2:27 PM
To: Moskal, Steven
Cc: Fields, Vanessa, EMNRD
Subject: Florance Gas Com J 16 API# 30-045-09800

Steve,

OCD has received your subsequent C-141 report for the Florance Gas Com J 16. Upon review the C-141 has been approved with the following conditions of approval:

- BP will submit to the OCD District III Office a subsequent C-141 remediation progress report Bi-annually.

If you have any questions please give me a call.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

BP America
Florance GC J 16
(A) Sec 6 – T30N – R9W
San Juan County, New Mexico
API: 30-045-09800

Summary Record of Impact Remediation

March 10, 2014 Soils impacted with hydrocarbons encountered during closure sampling of 21 barrel below grade tank (BGT). The BGT appeared to have good integrity and impacts were suspected to be from historical discharges of fluids into an unlined pit at the same location as the BGT.

Site Closure Standard Determined at 1,000 ppm TPH based on:

Horizontal distance to a blue line on a USGS Topo > 200 feet (10 points)

Nearest water well > 1,000 feet (0 points)

Depth to groundwater based on BGT permit records search >100 feet (0 points)

March 20, 2014 Receive lab report on 21 barrel BGT closure sampling documenting TPH and BTEX in excess of site closure standard:

TPH by US EPA Method 418.1 = 3,000 mg/Kg

TPH by US EPA Method 8015: GRO = 3,100 mg/Kg, DRO = 2,200 mg/Kg, MRO not reported

BTEX by US EPA Method 8021: Benzene = ND, Toluene = ND, Ethylbenzene = ND, Xylenes = 150 mg/Kg
Chloride = ND

October 9, 2014 Begin site delineation using Geoprobe. Encounter equipment limitations at 48 feet below surface grade (bsg).

November 21, 2014 – December 17, 2014 Complete site delineation using Hollow Stem Auger drill rig. A total of 5 borings advanced within and surrounding the original impact discovery. Impacts found to extend to a depth of 78 feet bsg at source, where a dense sandstone surface was encountered and auger refusal was determined. In the surrounding 4 additional borings the sandstone surface was found at depths ranging between 75.5' – 91' bsg. No groundwater was observed in any boring. Each boring was completed with 2-inch slotted pvc across the impact intervals to assist future SVE remediation.

February 17, 2016 Initial start-up of SVE system. Initial field OVM on exhaust = 4,088 ppm

February 18, 2016 – Present (August 22, 2016) SVE system in continuous operation. Most recent field OVM measured August 19, 2016 @ 804 ppm.

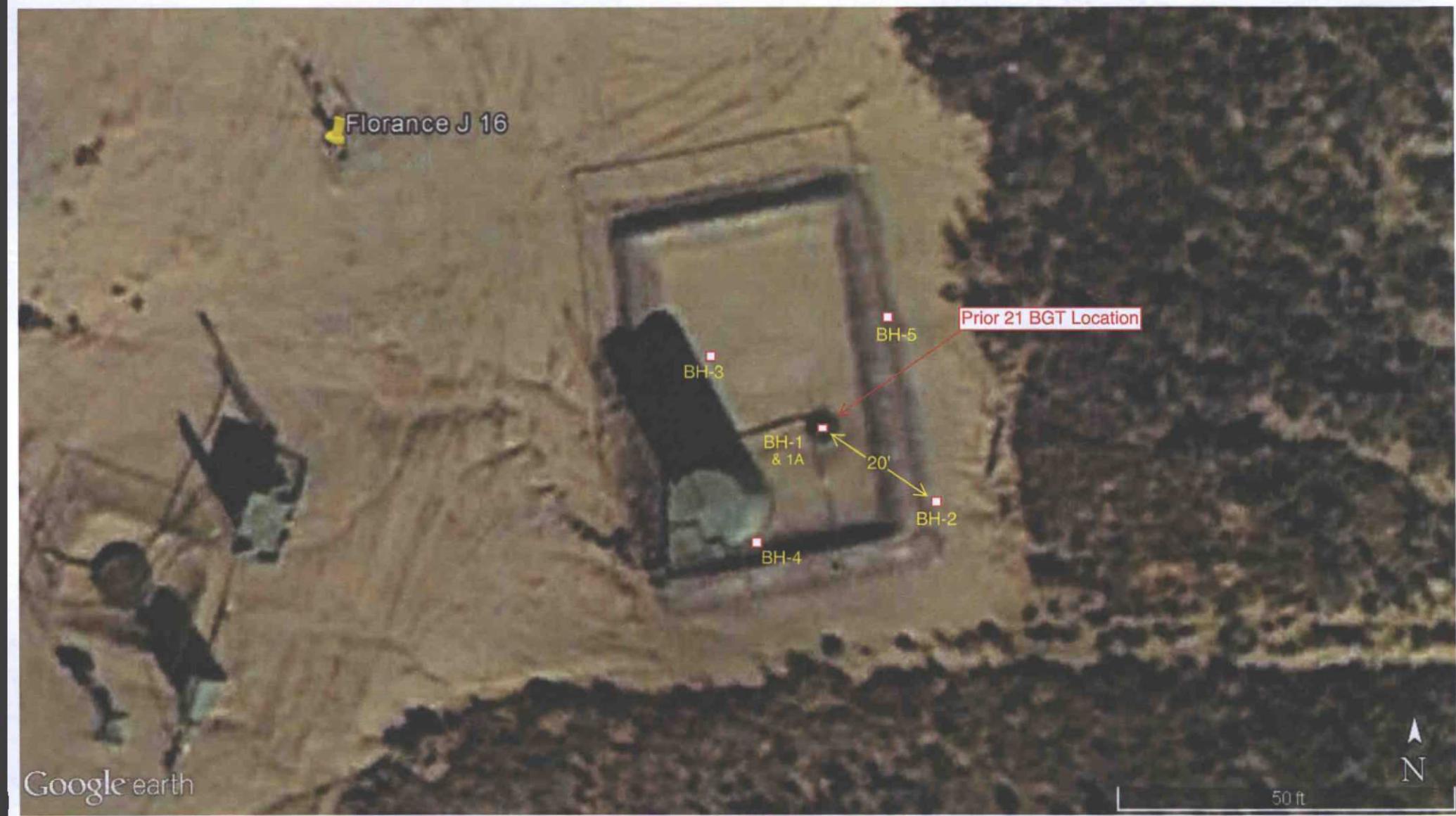
BP America - Florance GC J 16
Summary SVE System Monitoring Data

Date	Exhaust OVM (ppm)	Exhaust Vacuum (in)	SVE Point	Comments
02/17/2016	4,088	33	BH-1	Initial start up at SVE BH-1
02/18/2016	1,844	34	BH-1	Operational @ TOA; H ₂ O in drum below drain port
02/19/2016	1,280	31	BH-1	Operational @ TOA; drained ~ 1.5 gal. H ₂ O in drum, restarted
02/20/2016	1,273	31	BH-1	Operational @ TOA; drained ~ 2.5 gal. H ₂ O in drum, restarted
02/22/2016	1,193	31	BH-1	Operational @ TOA; drained ~ 9 gal. H ₂ O in drum, restarted
02/26/2016	1,344	34	BH-1	Operational @ TOA; drained ~ 23 gal. H ₂ O in drum, restarted
03/03/2016	1,259	34	BH-1	Operational @ TOA; drained ~ 15.5 gal. H ₂ O in drum, restarted
03/08/2016	1,219	32	BH-1	Operational @ TOA; drained ~ 11.5 gal. H ₂ O in drum, restarted
03/10/2016	1,135	34	BH-1	Operational @ TOA; drained ~ 5 gal. H ₂ O in drum, restarted
03/14/2016	1,184	34	BH-1	Operational @ TOA; drained ~ 10.5 gal. H ₂ O in drum, restarted
03/17/2016	1,022	37	BH-1	Operational @ TOA; drained ~ 7.5 gal. H ₂ O in drum, restarted
03/22/2016	2,427	36	BH-1	Operational @ TOA; drained ~ 9 gal. H ₂ O in drum, restarted
03/24/2016	1,504	34	BH-1	Operational @ TOA; drained ~ 5.5 gal. H ₂ O in drum, restarted
03/28/2016	1,448	34	BH-1	Operational @ TOA; drained ~ 17 gal. H ₂ O in drum, restarted
03/31/2016	1,462	34	BH-1	Operational @ TOA; drained ~ 9 gal. H ₂ O in drum, restarted
04/05/2016	1,480	34	BH-1	Operational @ TOA; drained ~ 12 gal. H ₂ O in drum, restarted
04/08/2016	1,499	34	BH-1	Operational @ TOA; drained ~ 5 gal. H ₂ O in drum, restarted
04/11/2016	1,425	34	BH-1	Operational @ TOA; drained ~ 7.5 gal. H ₂ O in drum, restarted
04/15/2016	1,567	34	BH-1	Operational @ TOA; drained ~ 10.5 gal. H ₂ O in drum, restarted
04/19/2016	1,596	34	BH-1	Operational @ TOA; drained ~ 11.5 gal. H ₂ O in drum, restarted
04/22/2016	1,480	34	BH-1	Operational @ TOA; drained ~ 3 gal. H ₂ O in drum, restarted
04/25/2016	1,471	34	BH-1	Operational @ TOA; meas. ~ 4 gal. of H ₂ O in drum, did not drain (D.N.D.)
04/29/2016	1,434	34	BH-1	Operational @ TOA; drained ~ 11.5 gal. H ₂ O in drum, restarted
05/05/2016	1,753	33	BH-1	Operational @ TOA; drained ~ 11.5 gal. H ₂ O in drum, restarted
05/14/2016	1,407	34	BH-1	Operational @ TOA; drained ~ 10.5 gal. H ₂ O in drum, restarted
05/20/2016	1,190	33	BH-1	Operational @ TOA; drained ~ 5.5 gal. H ₂ O in drum, restarted
05/26/2016	1,303	34	BH-1	Operational @ TOA; meas. ~ 2.5 gal. of H ₂ O in drum, D.N.D., restarted
06/02/2016	1,167	33	BH-1	Operational @ TOA; meas. ~ 5.5 gal. of H ₂ O in drum, D.N.D., restarted
06/17/2016	1,122	33	BH-1	Operational @ TOA; meas. ~ 1.5 gal. of H ₂ O in drum, D.N.D., restarted
06/30/2016	926	33	BH-1	Operational @ TOA; dry drum, restarted
07/15/2016	938	33	BH-1	Operational @ TOA; dry drum, restarted
08/19/2016	804	34	BH-1	Operational @ TOA; water in drum below drain port, restarted

TOA = Time of Arrival

D.N.D. = Did Not Drain

Note: Necessary to turn off SVE blower to inspect water accumulation from condensation in drum, then restart.





BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

OVM CALIB
53.1/100@0600AM

Page 1 of 2
@ EGT (2) CENTER

FIELD BORING LOG

BORING ID: BH-1

PROJECT: BP: FLORANCE GC J 16

CLIENT: BP America Production Co.

DRILLING CONTRACTOR: Kytek

EQUIPMENT USED: GEOPROBE

DATE START: 10/9/2014 DATE FINISH: DRILLER: KP LOGGED BY: JCB

TOTAL DEPTH: CASING TYPE & SIZE: — SLOT SIZE: —

COMMENTS:

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	BLOW COUNTS	FIELD OVM	SAMPLE DESCRIPTION
4'	1:23	PLASTIC SLEEVE		4.4	MEDIUM Grained Sand, MINOR HC ODOR lite yellow tan
8'	1:26			60	lite Gray Medium Sand, HC odor.
10'					
12'	1:29			408	DARK Gray Medium Sand, Strong HC odor
16'	1:32	DRO=130 GRO=220		381	SAA
20'	1:37	DRO=1100 GRO=1700		347	DARK Gray Silt/SAND Silt, HC odor
24'	1:41	DRO=2000 GRO=3600		285	SAA
28'	1:47	DRO= 870 GRO=2400		298	lite Gray Medium/coarse SAND, HC odor
30'					

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FIELD BORING LOG

BORING ID: BH-1

PROJECT: BP: FLORANCE GC J 16

CLIENT: BP America Production Co.

DRILLING CONTRACTOR: Kyvek

EQUIPMENT USED: Geoprobe

DATE START: 10/9/2014 DATE FINISH: 10/9/2014 DRILLER: KP LOGGED BY: JCB

TOTAL DEPTH: 48' CASING TYPE & SIZE: SLOT SIZE:

COMMENTS:

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	BOW COUNTS	FIELD DVM	SAMPLE DESCRIPTION
28		Plastic SLEEVE			
32'	1:51		DRO=2200 GRO=2000	308	silty/sandy silt, Lite Gray, HC odor
36'	1:57		DRO=1400 GRO=3800	275	SAA
40'	2:03		DRO=4700 GRO=2300	280	SAA
44'	2:12		DRO=2300 GRO=4100	315	Mottled Brown/Gray Silt/Sand, HC odor
48'	2:19		DRO=1900 GRO=3800	240	SAA, v. Lite HC odor
		TD48	EQUIPMENT LIMITATION		

BLAGG ENGINEERING, INC.
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 (505) 632-1199 OVM CALIB 0710 AM
 51.8 / 100

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EXACT SAME LOCATION AS BH-1
 ADVANCED 10/9/2014 WITH Geoprobe
 USE CME-95 TO DRILL DEEPER TODAY

FIELD BORING LOG

BORING ID: BH-1A

PROJECT: BP: FLORANCE GC J 76

CLIENT: BP America Production Co.

DRILLING CONTRACTOR: Kyrek

EQUIPMENT USED: CME-95

DATE START: 11/21/2014 DATE FINISH: 11/21/2014 DRILLER: KP LOGGED BY: JCB

TOTAL DEPTH: 79 feet CASING TYPE & SIZE: 2" PVC SLOT SIZE: 0.010

COMMENTS: DRILL TO 50', THEN BEGIN SPLIT SPOON SAMPLING

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	BLOW COUNTS	FIELD OVM	SAMPLE DESCRIPTION
50'	1014	SS	18 DRO=590 GRO=1100	408	Lite Brown Silty Sand, HC Odor MINOR GRAY STREAKING
55'	1031	SS	14 DRO=320 GRO=640	445	SAA
60'	1054	SS	16 DRO=220 GRO=350	417	SAA
65'	1120	SS	21 DRO=68 GRO=2200	409	MEDIUM SAND, Minor Rounded Pebbles, HC Odor
70'	1155	SS	17 DRO=59 GRO=150	439	MEDIUM SAND, Gray, HC Odor
75'	1225	SS	17 DRO=68 GRO=87	402	SAA
80'	1255	SS CS	45 DRO=120 GRO=170	409	SANDSTONE @ 77' (Bit Bouncing) SPLIT SPOON 78-79' CRUSHED SANDSTONE in SPOON - MIX OF TAN/GREY COLOR

TD Drilled 78', TD Split Spoon 79'

Run 65' slotted 2" screen, 15' Riser
 10/20 sand to 12', Bentonite 12-9'

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Boring Dist/Bearing:

FIELD BORING LOG

BORING ID: BH - 2

PROJECT: BP: Florence GC J 16

CLIENT: BP America Production Co.

DRILLING CONTRACTOR: Kyvel

EQUIPMENT USED: CME-95

DATE START: 12/9/14 DATE FINISH: 12/9/14 DRILLER: KP LOGGED BY: NJV

TOTAL DEPTH: Casing Type & Size: 2" PVC SLOT SIZE: 0.010

COMMENTS: 0' vvm CALIB. - 52.5 ppm TIME: 1000 RF - 0.52 CALIB. GAS - 100 ppm

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	BLOW COUNTS PER 18"	FIELD OVM	SAMPLE DESCRIPTION	
5' 0940		SPLIT SPOON	7	0.0 (1002)	COARSE GRAINED SAND, DYO, sm, FIRM	
10' 0955			7	0.6 (1003)	FINE GRAINED SILTY SAND, DYO, sm, FIRM	
15' 1000			5	0.6 (1008)	SAA EXCEPT MB	
20' 1005			7	0.7 (1009)	SAA	sm -
25' 1010			19	2.1 (1022)	MED GRAINED SAND TO SILTY SAND, PYB, sm, LOOSE TO FIRM	SLIGHTLY MOIST
30' 1020			13	1.1 (1033)	SA BH2 E5!	DYO DARK YELLOW ORANGE
35' 1028			14	0.7 (1000)	SAA	0YB " BROWN
40' 1043			14	1.4 (1011)	SAA	MB MOD BROWN
45' 1053			20	0.6 (1015)	FINE GRAINED SILTY SAND, DYO, sm, FIRM TO SLIGHTLY DENSE	PYB PALE YELLOW BROWN
50' 1111			20	1.8 (1113)	MED TO COARSE GRAINED SAND, DYO, sm, FIRM	SA SAME AS
55' 1128			40	0.6 (1121)	TOP INTERVAL SILTY SAND, DYO, sm, DENSE Bottom " SAND, DYO, sm, FIRM	SAA SAME AS
60' 1149			24	1.6 (1203)	MED TO FINE GRAINED SILTY SAND, MB	
65' 1216			24	7.6 (1228)	FINE GRAINED SILTY SAND, OLIVE TO MED. GRAY, ORY TO SM, FIRM TO DENSE	
70' 1247			22	29.4 (1300)	SAA EXCEPT MED. GRAY, ORY	
75' 1313			23	31.4 (1327)	SAA	2" PVC SCREEN INTERVAL 65'-85' B.G., CASING TO SURFACE
80' 1400			27	45.0 (1443)	SAA	
85' 1453	75		41.9 (1503)		SAA, SANDSTONE @ 86' (INDICATED BY SPLIT SPOON BLOW COUNT & PHYSICAL & APPEARANCE, SIMILAR TO BH-1A.)	

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P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

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ENVIROTECH COCR 17916

Boring Dist/Bearing:

FIELD BORING LOG

BORING ID: BH-3

PROJECT: BP: Florence GC J 16

CLIENT: BP America Production Co.

DRILLING CONTRACTOR: Kyvek

EQUIPMENT USED: CME-95

DATE START: 12/10/14 DATE FINISH: 12/10/14 DRILLER: KP LOGGED BY: NJV

TOTAL DEPTH: 75 CASING TYPE & SIZE: 2" PUC SLOT SIZE: 0.010

COMMENTS: own calib. - 53.1 ppm TIME - 0854 RF - 0.52 calib. GAS - 168 ppm

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	BLOW COUNTS	FIELD OVM	SAMPLE DESCRIPTION
5	0845	SPLIT SPOON	8	10.9 (0900)	COARSE GRAINED SAND, DRY, MOIST, FIRM
10	0850		9	0.0 (0924)	SAA
15	0855		22	1.5 (0925)	SAA
20	0902		7	0.9 (0926)	FINE GRAINED SILTY SAND, DRY, MOIST, FIRM
25	0910		8	531 (0928)	MED. TO COARSE GRAINED SAND TO SILTY SAND, FIRM, DISCOLORED (MED. GRAY) LAST 6" OF SPOON
30	0919		10	900 (0940)	SAA EXCEPT MED. GRAY CONTINUOUS THRU OUT
35	0935		13	879 (0945)	SAA
40	NA		40	NA	NO RECOVERY - 0.944
45	0950		23	782 (1009)	SAA
50	+007		17	839 (1019)	SAA
55	1021		23	679 (1030)	SAA
60	1048		23	515 (1100)	SAA EXCEPT OLIVE GRAY
65	1107		20	526 (1129)	SAA EXCEPT LT. OLIVE GRAY
70	+131		19	618 (1218)	SAA EXCEPT MED. GRAY
75	1215		64	511 (1241)	SAA, SANDSTONE @ 75.5', SIMILAR APPEARANCE & CONDITIONS AS BH-1A & BH-2.
80					

RECOVERIES
OWN
- 52-2PPM
TIME - 1017

36'-
ENCOUNTERED
HARD CONTACT
1' THICK,
36'-37'

PVC
SLOTTED
SCREEN
25'-75'
B.G.
CASING
TO SURF

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ENVIROTECH COCR 17917
Boring Dist/Bearing " 17918

FIELD BORING LOG

BORING ID: BH-4

PROJECT: BP: Florence GC J 16

CLIENT: BP America Production Co.

DRILLING CONTRACTOR: Kyrek

EQUIPMENT USED: CME-95

DATE START: 12/10/14 DATE FINISH: 12/15/14 DRILLER: KP LOGGED BY: NJV

TOTAL DEPTH: 90' CASING TYPE & SIZE: 2" PVC SLOT SIZE: 0.016

COMMENTS: 0.0m CALIB. - SEE BH-3.

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	BLOW COUNTS	FIELD DVM	SAMPLE DESCRIPTION	
5	1432	SPLIT SPOON	8	0.0 (1508)	COARSE GRAINED SAND, DRY, SM, FIRM	SETTED PIPE BET.
10	1435		7	0.0 (1508)	MED. GRAINED SILTY SAND, DRY, SM, FIRM	45'-90'
15	1442		4	0.0 (1508)	FINE GRAINED SILTY SAND, MB SM, LOOSE TO FIRM	B.G.
20	1448		5	1.8 2 (1509)	SAA EXCEPT MED. GRAY IN SPOON (1' THICK)	
25	1455		8	22.3 (1510)	SAA, LAST 6" LT. GRAY SAND, SM, LOOSE	
30	1502		13	65.3 (1511)	SAA (20') FINISHED @ 3 PM - TBC 12/11/14	12/11/14
35	0844		17	29.2 (0859)	SAA EXCEPT OLIVE GRAY, COHESIVE	0.0m CALIB. 52.9 ppm
40	0852		17	39.4 (0913)	SAA EXCEPT FIRM	TIME - 0850
45	0909		22	273 (0926)	SAA LAST 6", STIFF CLAY, COHESIVE, STIFF	
50	0920		26	54.1 (0933)	SAA (40')	
55	0938		20	68.0 (0947)	SAA	
60	1002		16	117.5 (1016)	SAA EXCEPT SHADE DARKER IN COLOR	12/11/14 10:35 AM
65	1027		26	39.1 (057)	SAA EXCEPT RECOVERED ONLY 6" IN SPOON	DRILLING SHUT DOWN DUE TO MECHANICAL REPAIRS REQUIRED.
70	0905		16	188.2 (0919)	SAA	
75	0922		23	134.6 (0940)	SAA	
80	0944		26	170.8 (1007)	SAA EXCEPT MED. GRAY IN COLOR	
85	1019		28	132.9 (032)	SAA	12/15/14 0.0m CALIB 53.1 ppm
90	1106		60	537 (1133)	SANDSTONE @ 91' B.G. OK. MED. GRAY SILTY SAND, DRY TO SM.	TIME - 0838

BLAGG ENGINEERING, INC..
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

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ENVIROTECH COER 17919

Boring Dist/Bearing:

FIELD BORING LOG

BORING ID: BH-5

PROJECT: BP: Florence GC J 16

CLIENT: BP America Production Co.

DRILLING CONTRACTOR: Kytek

EQUIPMENT USED: CMF-95

DATE START: 12/15/14 DATE FINISH: 12/17/14 DRILLER: KP LOGGED BY: NJV

TOTAL DEPTH: 75 CASING TYPE & SIZE: 2" PVC SLOT SIZE:

COMMENTS: OVM CALIB. 53.1 ppm TIME - 0838 RF - 0.52 CALIB. GAS - 100 ppm

DEPTH FEET	SAMPLE TIME	SAMPLE TYPE	BLOW COUNTS	FIELD OVM	SAMPLE DESCRIPTION
5	1354	SPLIT SPOON	6	0.0 (1430)	MED. TO COARSE GRAINED SAND, DYO, SM, FIRM
10	+400		10	0.0 (1430)	SAA EXCEPT SLUFF SAND, DYO, GRAY TO SAWDUST
15	1407		16	0.0 (1430)	SAA
20	+4-11		22	0.0 (1430)	SAA
25	1420		25	0.0 (1433)	SAA
30	+426		10	0.0 (1433)	SAA, DYO
35	1436		10	0.0 (1453)	SAA, COHESIVE
40	+444		15	0.0 (1453)	SAA
45	1500		20	0.0 (1507)	SAA, NON COHESIVE
50	0942		21	9.9 (0955)	SAA, COHESIVE, LT. OLIVE GRAY
55	0957		22	24.2 (1009)	SAA, OLIVE GRAY
60	1017		29	14.2 (1050)	SAA, NON COHESIVE
65	1043		39	29.5 (1102)	SAA EXCEPT MED. GRAY
70	+106		27	41.4 (1106)	SAA
75	1130		107	21.1 (1143)	OVERALL APPEARANCE & CHARACTERIZATION SIMILAR TO BH2 TOT. DEPTA
80					

SANDSTONE C 76'

PERM WATED
ADVANCEMENT
C 45'
TIME - 1500

12/17/14
OVM CALIB.
- 53.0 ppm
TIME - 0830

RECALIB.
52.1 ppm
TIME - 1012

SLOTTED
SCREEN
55'-75'



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

October 16, 2014

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: Florance GC J 16

OrderNo.: 1410571

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 9 sample(s) on 10/10/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1410571
Date Reported: 10/16/2014

CLIENT: Blagg Engineering	Client Sample ID: BH-1 @ 16'					
Project: Florance GC J 16	Collection Date: 10/9/2014 1:32:00 PM					
Lab ID: 1410571-001	Matrix: SOIL				Received Date: 10/10/2014 4:15:00 PM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	130	10		mg/Kg	1	10/14/2014 4:18:42 PM 15857
Surr: DNOP	102	57.9-140		%REC	1	10/14/2014 4:18:42 PM 15857
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	220	23		mg/Kg	5	10/14/2014 11:22:45 AM 15866
Surr: BFB	314	80-120	S	%REC	5	10/14/2014 11:22:45 AM 15866
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.12		mg/Kg	5	10/14/2014 11:22:45 AM 15866
Toluene	ND	0.23		mg/Kg	5	10/14/2014 11:22:45 AM 15866
Ethylbenzene	0.81	0.23		mg/Kg	5	10/14/2014 11:22:45 AM 15866
Xylenes, Total	9.9	0.47		mg/Kg	5	10/14/2014 11:22:45 AM 15866
Surr: 4-Bromofluorobenzene	111	80-120		%REC	5	10/14/2014 11:22:45 AM 15866
EPA METHOD 300.0: ANIONS						
Chloride	ND	30		mg/Kg	20	10/14/2014 4:22:14 PM 15890

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		Page 1 of 13

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1410571
Date Reported: 10/16/2014

CLIENT: Blagg Engineering**Client Sample ID:** BH-1 @ 20'**Project:** Florance GC J 16**Collection Date:** 10/9/2014 1:37:00 PM**Lab ID:** 1410571-002**Matrix:** SOIL**Received Date:** 10/10/2014 4:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	1100	100		mg/Kg	10	10/15/2014 10:43:26 AM	15877
Sur: DNOP	0	57.9-140	S	%REC	10	10/15/2014 10:43:26 AM	15877
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	1700	250		mg/Kg	50	10/14/2014 7:28:44 PM	15866
Sur: BFB	191	80-120	S	%REC	50	10/14/2014 7:28:44 PM	15866

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1410571
Date Reported: 10/16/2014

CLIENT: Blagg Engineering**Client Sample ID:** BH-1 @ 24'**Project:** Florance GC J 16**Collection Date:** 10/9/2014 1:41:00 PM**Lab ID:** 1410571-003**Matrix:** SOIL**Received Date:** 10/10/2014 4:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	2000	98		mg/Kg	10	10/15/2014 12:31:21 PM	15877
Sur: DNOP	0	57.9-140	S	%REC	10	10/15/2014 12:31:21 PM	15877
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	3600	240		mg/Kg	50	10/14/2014 10:48:47 PM	15866
Sur: BFB	291	80-120	S	%REC	50	10/14/2014 10:48:47 PM	15866

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1410571**
Date Reported: **10/16/2014**

CLIENT: Blagg Engineering**Client Sample ID:** BH-1 @ 28'**Project:** Florence GC J 16**Collection Date:** 10/9/2014 1:47:00 PM**Lab ID:** 1410571-004**Matrix:** SOIL**Received Date:** 10/10/2014 4:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	870	10		mg/Kg	1	10/15/2014 11:26:31 AM	15877
Surr: DNOP	113	57.9-140		%REC	1	10/15/2014 11:26:31 AM	15877
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	2400	47		mg/Kg	10	10/14/2014 12:48:32 PM	15866
Surr: BFB	857	80-120	S	%REC	10	10/14/2014 12:48:32 PM	15866

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

Qualifiers:

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

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

Page 4 of 13

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1410571
Date Reported: 10/16/2014

CLIENT: Blagg Engineering	Client Sample ID: BH-1 @ 32'					
Project: Florance GC J 16	Collection Date: 10/9/2014 1:51:00 PM					
Lab ID: 1410571-005	Matrix: SOIL				Received Date: 10/10/2014 4:15:00 PM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	2200	98		mg/Kg	10	10/15/2014 12:53:07 PM 15877
Sur: DNOP	0	57.9-140	S	%REC	10	10/15/2014 12:53:07 PM 15877
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	2000	240		mg/Kg	50	10/14/2014 11:17:18 PM 15866
Sur: BFB	186	80-120	S	%REC	50	10/14/2014 11:17:18 PM 15866

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1410571
Date Reported: 10/16/2014

CLIENT: Blagg Engineering
Project: Florance GC J 16
Lab ID: 1410571-006

Matrix: SOIL

Client Sample ID: BH-1 @ 36'
Collection Date: 10/9/2014 1:57:00 PM
Received Date: 10/10/2014 4:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	1400	100		mg/Kg	10	10/15/2014 1:36:48 PM	15877
Sur: DNOP	0	57.9-140	S	%REC	10	10/15/2014 1:36:48 PM	15877
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	3800	240		mg/Kg	50	10/14/2014 11:45:51 PM	15866
Sur: BFB	313	80-120	S	%REC	50	10/14/2014 11:45:51 PM	15866

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

Qualifiers:

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

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

Page 6 of 13

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: BH-1 @ 40'

Project: Florence GC J 16

Collection Date: 10/9/2014 2:03:00 PM

Lab ID: 1410571-007

Matrix: SOIL

Received Date: 10/10/2014 4:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	4700	100		mg/Kg	10	10/15/2014 1:58:45 PM	15877
Surr: DNOP	0	57.9-140	S	%REC	10	10/15/2014 1:58:45 PM	15877
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	2300	460		mg/Kg	100	10/15/2014 12:14:28 AM	15866
Surr: BFB	141	80-120	S	%REC	100	10/15/2014 12:14:28 AM	15866

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 RSDDlimit
- 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

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P Sample pH greater than 2.

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1410571
Date Reported: 10/16/2014

CLIENT: Blagg Engineering	Client Sample ID: BH-1 @ 44'					
Project: Florance GC J 16	Collection Date: 10/9/2014 2:10:00 PM					
Lab ID: 1410571-008	Matrix: SOIL				Received Date: 10/10/2014 4:15:00 PM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	2300	100		mg/Kg	10	10/15/2014 2:20:28 PM 15877
Sur: DNOP	0	57.9-140	S	%REC	10	10/15/2014 2:20:28 PM 15877
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	4100	460		mg/Kg	100	10/15/2014 12:43:05 AM 15866
Sur: BFB	205	80-120	S	%REC	100	10/15/2014 12:43:05 AM 15866

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **1410571**Date Reported: **10/16/2014****CLIENT:** Blagg Engineering**Client Sample ID:** BH-1 @ 48'**Project:** Florance GC J 16**Collection Date:** 10/9/2014 2:19:00 PM**Lab ID:** 1410571-009**Matrix:** SOIL**Received Date:** 10/10/2014 4:15:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	1900	99		mg/Kg	10	10/15/2014 9:17:16 AM	15857
Surr: DNOP	0	57.9-140	S	%REC	10	10/15/2014 9:17:16 AM	15857
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	3800	470		mg/Kg	100	10/15/2014 1:11:39 AM	15866
Surr: BFB	204	80-120	S	%REC	100	10/15/2014 1:11:39 AM	15866
EPA METHOD 8021B: VOLATILES							
Benzene	ND	0.47		mg/Kg	10	10/14/2014 3:11:34 PM	15866
Toluene	11	0.47		mg/Kg	10	10/14/2014 3:11:34 PM	15866
Ethylbenzene	20	0.47		mg/Kg	10	10/14/2014 3:11:34 PM	15866
Xylenes, Total	280	9.3		mg/Kg	100	10/15/2014 1:11:39 AM	15866
Surr: 4-Bromofluorobenzene	212	80-120	S	%REC	10	10/14/2014 3:11:34 PM	15866
EPA METHOD 300.0: ANIONS							
Chloride	ND	30		mg/Kg	20	10/14/2014 4:34:39 PM	15890

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 9 of 13**
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410571

16-Oct-14

Client: Blagg Engineering

Project: Florence GC J 16

Sample ID	MB-15890	SampType:	MBLK	TestCode: EPA Method 300.0: Anions							
Client ID:	PBS	Batch ID:	15890	RunNo: 21901							
Prep Date:	10/14/2014	Analysis Date:	10/14/2014	SeqNo: 643793 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									
Sample ID	LCS-15890	SampType:	LCS	TestCode: EPA Method 300.0: Anions							
Client ID:	LCSS	Batch ID:	15890	RunNo: 21901							
Prep Date:	10/14/2014	Analysis Date:	10/14/2014	SeqNo: 643794 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	91.7	90	110				

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410571

16-Oct-14

Client: Blagg Engineering

Project: Florence GC J 16

Sample ID	MB-15857	SampType:	MBLK	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	PBS	Batch ID:	15857	RunNo: 21866							
Prep Date:	10/13/2014	Analysis Date:	10/14/2014	SeqNo: 643034 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Sur: DNOP	8.7		10.00		87.5	57.9	140				
Sample ID	LCS-15857	SampType:	LCS	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	LCSS	Batch ID:	15857	RunNo: 21866							
Prep Date:	10/13/2014	Analysis Date:	10/14/2014	SeqNo: 643037 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	61	10	50.00	0	123	68.6	130				
Sur: DNOP	4.4		5.000		87.5	57.9	140				
Sample ID	MB-15880	SampType:	MBLK	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	PBS	Batch ID:	15880	RunNo: 21866							
Prep Date:	10/14/2014	Analysis Date:	10/14/2014	SeqNo: 643143 Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Sur: DNOP	9.6		10.00		96.2	57.9	140				
Sample ID	LCS-15880	SampType:	LCS	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	LCSS	Batch ID:	15880	RunNo: 21866							
Prep Date:	10/14/2014	Analysis Date:	10/14/2014	SeqNo: 643147 Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Sur: DNOP	4.8		5.000		95.3	57.9	140				
Sample ID	MB-15877	SampType:	MBLK	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	PBS	Batch ID:	15877	RunNo: 21898							
Prep Date:	10/14/2014	Analysis Date:	10/15/2014	SeqNo: 644205 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Sur: DNOP	13		10.00		129	57.9	140				
Sample ID	LCS-15877	SampType:	LCS	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	LCSS	Batch ID:	15877	RunNo: 21898							
Prep Date:	10/14/2014	Analysis Date:	10/15/2014	SeqNo: 644206 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	48	10	50.00	0	95.7	68.6	130				
Sur: DNOP	4.7		5.000		93.7	57.9	140				

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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410571

16-Oct-14

Client: Blagg Engineering

Project: Florance GC J 16

Sample ID	MB-15866	SampType:	MBLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	PBS	Batch ID:	15866	RunNo: 21893							
Prep Date:	10/13/2014	Analysis Date:	10/14/2014	SeqNo: 643484 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	900		1000		89.8	80	120				

Sample ID	LCS-15866	SampType:	LCS	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	LCSS	Batch ID:	15866	RunNo: 21893							
Prep Date:	10/13/2014	Analysis Date:	10/14/2014	SeqNo: 643485 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.4	65.8	139				
Surr: BFB	950		1000		95.0	80	120				

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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1410571
16-Oct-14

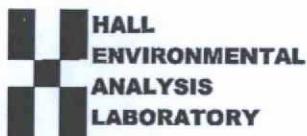
Client: Blagg Engineering
Project: Florance GC J 16

Sample ID	MB-15866	SampType:	MBLK	TestCode: EPA Method 8021B: Volatiles							
Client ID:	PBS	Batch ID:	15866	RunNo: 21893							
Prep Date:	10/13/2014	Analysis Date:	10/14/2014	SeqNo: 643515 Units: mg/Kg							
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	0.93		1.000		92.6	80	120				
Sample ID	LCS-15866	SampType:	LCS	TestCode: EPA Method 8021B: Volatiles							
Client ID:	LCSS	Batch ID:	15866	RunNo: 21893							
Prep Date:	10/13/2014	Analysis Date:	10/14/2014	SeqNo: 643516 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.95	0.050	1.000	0	95.0	80	120				
Toluene	0.95	0.050	1.000	0	95.0	80	120				
Ethylbenzene	0.98	0.050	1.000	0	97.9	80	120				
Xylenes, Total	2.9	0.10	3.000	0	97.0	80	120				
Surr: 4-Bromofluorobenzene	0.99		1.000		99.5	80	120				

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.
- RL Reporting Detection Limit



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

Sample Log-In Check List

Client Name: BLAGG

Work Order Number: 1410571

RcptNo: 1

Received by/date: CS 10/10/14

Logged By: Lindsay Mangin 10/10/2014 4:15:00 PM

Completed By: Lindsay Mangin 10/13/2014 9:04:13 AM

Reviewed By: CS 10/13/14

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes No NA
5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples (except VOA and ONG) properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. VOA vials have zero headspace? Yes No No VOA Vials
11. Were any sample containers received broken? Yes No
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No
- # of preserved bottles checked for pH:
<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	Date:
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

17. Additional remarks:

18. Cooler Information

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

Client:	Blagg Engineering, Inc.		
	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush		
BP America Production Co.		Project Name:	
Mailing Address:	P.O. Box 87 Florence GC J 16		
Bloomfield, NM 87413		Project #:	
Phone #:	(505)320-1183		
email or Fax#:		Project Manager:	
QA/QC Package:		Jeff Blagg	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)		
<input type="checkbox"/> Other _____			
<input type="checkbox"/> EDD (Type) _____			

 HALL ENVIRONMENTAL ANALYSIS LABORATORY		www.hallenvironmental.com	
4901 Hawkins NE - Albuquerque, NM 87109			
Tel. 505-345-3975 Fax 505-345-4107			
Analysis Request			
<input type="checkbox"/> BTEX (8021) <input type="checkbox"/> TPH 8015B (GRO / DRO)			
Sampler: Jeff Blagg On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sample Temperature: 0°C			

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH 8015B (GRO / DRO)	Chloride	Air Bubbles (Y or N)
10/09/2014	13:32	Soil	BH-1 @ 16'	4oz x 1	cool	-001	x	x		x
10/09/2014	13:37	Soil	BH-1 @ 20'	4oz x 1	cool	-002		x		
10/09/2014	13:41	Soil	BH-1 @ 24'	4oz x 1	cool	-003		x		
10/09/2014	13:47	Soil	BH-1 @ 28'	4oz x 1	cool	-004		x		
10/09/2014	13:51	Soil	BH-1 @ 32'	4oz x 1	cool	-005		x		
10/09/2014	13:57	Soil	BH-1 @ 36'	4oz x 1	cool	-006		x		
10/09/2014	14:03	Soil	BH-1 @ 40'	4oz x 1	cool	-007		x		
10/09/2014	14:10	Soil	BH-1 @ 44'	4oz x 1	cool	-008		x		
10/09/2014	14:19	Soil	BH-1 @ 48'	4oz x 1	cool	-009	x	x		x

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
10/10/2014	903	Jeff Blagg	Mushtu Walker	10/10/14	903	Bill Blagg BP Contact: Jeff Peace
Date:	Time:	Relinquished by:	Received by:	Date	Time	
10/10/14	1115	Mushtu Walker	Celine Sime	10/10/14	1615	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.



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

December 01, 2014

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-1183
FAX (505) 632-3903

RE: Florance GC J 16

OrderNo.: 1411974

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 7 sample(s) on 11/22/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1411974
Date Reported: 12/1/2014

CLIENT: Blagg Engineering**Client Sample ID:** BH-1A @ 50'-51'**Project:** Florance GC J 16**Collection Date:** 11/21/2014 10:14:00 AM**Lab ID:** 1411974-001**Matrix:** SOIL**Received Date:** 11/22/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	590	9.8		mg/Kg	1	11/25/2014 10:29:31 PM	16540
Sur: DNOP	100	63.5-128		%REC	1	11/25/2014 10:29:31 PM	16540
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	1100	240		mg/Kg	50	11/26/2014 6:41:55 PM	16538
Sur: BFB	179	80-120	S	%REC	50	11/26/2014 6:41:55 PM	16538

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 11
P Sample pH greater than 2.
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Florance GC J 16
Lab ID: 1411974-002

Matrix: SOIL

Client Sample ID: BH-1A @ 55'-56'
Collection Date: 11/21/2014 10:31:00 AM
Received Date: 11/22/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	320	10		mg/Kg	1	11/25/2014 10:59:35 PM	16540
Sur: DNOP	85.8	63.5-128		%REC	1	11/25/2014 10:59:35 PM	16540
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	640	240		mg/Kg	50	11/25/2014 9:49:38 PM	16538
Sur: BFB	138	80-120	S	%REC	50	11/25/2014 9:49:38 PM	16538

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

Qualifiers:

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1411974
Date Reported: 12/1/2014

CLIENT: Blagg Engineering
Project: Florance GC J 16
Lab ID: 1411974-003

Matrix: SOIL

Client Sample ID: BH-1A @ 60'-61'
Collection Date: 11/21/2014 10:54:00 AM
Received Date: 11/22/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	220	10		mg/Kg	1	11/25/2014 11:29:18 PM	16540
Sur: DNOP	91.4	63.5-128		%REC	1	11/25/2014 11:29:18 PM	16540
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	350	93		mg/Kg	20	11/26/2014 7:10:33 PM	16538
Sur: BFB	167	80-120	S	%REC	20	11/26/2014 7:10:33 PM	16538

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 RSDDlimit
- 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.
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1411974
Date Reported: 12/1/2014

CLIENT: Blagg Engineering**Client Sample ID:** BH-1A @ 65'-66'**Project:** Florance GC J 16**Collection Date:** 11/21/2014 11:20:00 AM**Lab ID:** 1411974-004**Matrix:** SOIL**Received Date:** 11/22/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	68	9.8		mg/Kg	1	11/25/2014 11:58:49 PM	16540
Sur: DNOP	93.8	63.5-128		%REC	1	11/25/2014 11:58:49 PM	16540
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	2200	240		mg/Kg	50	11/25/2014 10:46:51 PM	16538
Sur: BFB	201	80-120	S	%REC	50	11/25/2014 10:46:51 PM	16538

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

Qualifiers:

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

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

Page 4 of 11

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1411974
Date Reported: 12/1/2014

CLIENT: Blagg Engineering**Client Sample ID:** BH-1A @ 70'-71'**Project:** Florance GC J 16**Collection Date:** 11/21/2014 11:55:00 AM**Lab ID:** 1411974-005**Matrix:** SOIL**Received Date:** 11/22/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	59	9.9		mg/Kg	1	11/26/2014 12:28:43 AM	16540
Sur: DNOP	88.1	63.5-128		%REC	1	11/26/2014 12:28:43 AM	16540
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	150	24		mg/Kg	5	11/26/2014 7:39:08 PM	16538
Sur: BFB	253	80-120	S	%REC	5	11/26/2014 7:39:08 PM	16538

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

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

Analytical Report
Lab Order 1411974
Date Reported: 12/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Florance GC J 16
Lab ID: 1411974-006

Matrix: SOIL

Client Sample ID: BH-1A @ 75'-76'
Collection Date: 11/21/2014 12:25:00 PM
Received Date: 11/22/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	68	10		mg/Kg	1	11/26/2014 12:58:59 AM	16540
Surr: DNOP	83.0	63.5-128		%REC	1	11/26/2014 12:58:59 AM	16540
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	87	9.2		mg/Kg	2	11/26/2014 10:02:19 PM	16538
Surr: BFB	358	80-120	S	%REC	2	11/26/2014 10:02:19 PM	16538

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 1411974
Date Reported: 12/1/2014

CLIENT: Blagg Engineering
Project: Florance GC J 16
Lab ID: 1411974-007

Matrix: SOIL

Client Sample ID: BH-1A @ 78'-79'
Collection Date: 11/21/2014 12:55:00 PM
Received Date: 11/22/2014 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	120	10		mg/Kg	1	11/26/2014 1:29:01 AM	16540
Surr: DNOP	90.2	63.5-128		%REC	1	11/26/2014 1:29:01 AM	16540
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	170	24		mg/Kg	5	11/26/2014 6:13:19 PM	16538
Surr: BFB	273	80-120	S	%REC	5	11/26/2014 6:13:19 PM	16538
EPA METHOD 8021B: VOLATILES							
Benzene	ND	0.12		mg/Kg	5	11/26/2014 6:13:19 PM	16538
Toluene	ND	0.24		mg/Kg	5	11/26/2014 6:13:19 PM	16538
Ethylbenzene	0.57	0.24		mg/Kg	5	11/26/2014 6:13:19 PM	16538
Xylenes, Total	7.2	0.47		mg/Kg	5	11/26/2014 6:13:19 PM	16538
Surr: 4-Bromofluorobenzene	117	80-120		%REC	5	11/26/2014 6:13:19 PM	16538
EPA METHOD 300.0: ANIONS							
Chloride	ND	30		mg/Kg	20	11/25/2014 1:35:43 PM	16568

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

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411974
01-Dec-14

Client: Blagg Engineering

Project: Florence GC J 16

Sample ID	MB-16568	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions
Client ID:	PBS	Batch ID:	16568	RunNo:	22809
Prep Date:	11/25/2014	Analysis Date:	11/25/2014	SeqNo:	673166 Units: mg/Kg
Analyte		Result	PQL	SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND	1.5		

Sample ID	LCS-16568	SampType:	LCS	TestCode:	EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID:	16568	RunNo:	22809
Prep Date:	11/25/2014	Analysis Date:	11/25/2014	SeqNo:	673167 Units: mg/Kg
Analyte		Result	PQL	SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		14	1.5	15.00	0 92.0 90 110

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411974

01-Dec-14

Client: Blagg Engineering

Project: Florence GC J 16

Sample ID	MB-16562	SampType:	MBLK	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	PBS	Batch ID:	16562	RunNo: 22764							
Prep Date:	11/25/2014	Analysis Date:	11/25/2014	SeqNo: 671990 Units: %REC							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		7.9		10.00		78.8	63.5	128			
Sample ID	LCS-16562	SampType:	LCS	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	LCSS	Batch ID:	16562	RunNo: 22764							
Prep Date:	11/25/2014	Analysis Date:	11/25/2014	SeqNo: 671994 Units: %REC							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.1		5.000		81.6	63.5	128			
Sample ID	MB-16540	SampType:	MBLK	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	PBS	Batch ID:	16540	RunNo: 22764							
Prep Date:	11/24/2014	Analysis Date:	11/25/2014	SeqNo: 672069 Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		ND	10								
Surr: DNOP		8.2		10.00		82.2	63.5	128			
Sample ID	LCS-16540	SampType:	LCS	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	LCSS	Batch ID:	16540	RunNo: 22764							
Prep Date:	11/24/2014	Analysis Date:	11/25/2014	SeqNo: 672266 Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		54	10	50.00	0	108	68.6	130			
Surr: DNOP		4.0		5.000		80.1	63.5	128			
Sample ID	MB-16541	SampType:	MBLK	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	PBS	Batch ID:	16541	RunNo: 22764							
Prep Date:	11/24/2014	Analysis Date:	11/25/2014	SeqNo: 672638 Units: %REC							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		7.5		10.00		74.9	63.5	128			
Sample ID	LCS-16541	SampType:	LCS	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	LCSS	Batch ID:	16541	RunNo: 22764							
Prep Date:	11/24/2014	Analysis Date:	11/25/2014	SeqNo: 672743 Units: %REC							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		3.5		5.000		69.6	63.5	128			

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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411974
01-Dec-14

Client: Blagg Engineering
Project: Florence GC J 16

Sample ID MB-16538		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS		Batch ID: 16538		RunNo: 22780							
Prep Date: 11/24/2014		Analysis Date: 11/25/2014		SeqNo: 672974		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	910		1000		91.3	80	120				
Sample ID LCS-16538		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS		Batch ID: 16538		RunNo: 22780							
Prep Date: 11/24/2014		Analysis Date: 11/25/2014		SeqNo: 672975		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.4	65.8	139				
Surr: BFB		1000			102	80	120				

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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411974

01-Dec-14

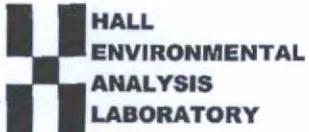
Client: Blagg Engineering
Project: Florance GC J 16

Sample ID MB-16538		SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS		Batch ID: 16538			RunNo: 22780						
Prep Date: 11/24/2014		Analysis Date: 11/25/2014			SeqNo: 673034		Units: mg/Kg				
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	1.0		1.000		99.9	80	120				
Sample ID LCS-16538		SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 16538			RunNo: 22780						
Prep Date: 11/24/2014		Analysis Date: 11/25/2014			SeqNo: 673035		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.97	0.050	1.000	0	96.8	80	120				
Toluene	0.94	0.050	1.000	0	94.0	80	120				
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120				
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120				

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.
- RL Reporting Detection Limit



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

Sample Log-In Check List

Client Name: BLAGG

Work Order Number: 1411974

RcptNo: 1

Received by/date:

11/22/14

Logged By: Lindsay Mangin

11/22/2014 7:30:00 AM

Lindsay Mangin

Completed By: Lindsay Mangin

11/22/2014 8:03:50 AM

Lindsay Mangin

Reviewed By:

AS 11/24/14

AS 11/24/14

Chain of Custody

1. Custody seals intact on sample bottles? Yes No Not Present
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Client

Log In

4. Was an attempt made to cool the samples? Yes No NA
5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples (except VOA and ONG) properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. VOA vials have zero headspace? Yes No No VOA Vials
11. Were any sample containers received broken? Yes No
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH:
<2 or >12 unless noted
Adjusted?
Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	Date:
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.7	Good	Yes			



Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number: 17915

Samples Received: 12/10/2014 8:49:00AM

Job Number: 03143-0424

Work Order: P412024

Project Name/Location: Florance GC J #16

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'T. Cain'.

Date: 12/15/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



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

Project Name: Florance GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
15-Dec-14 09:55

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH 2 @ 25'-26.5'	P412024-01A	Soil	12/09/14	12/10/14	Glass Jar, 4 oz.
BH 2 @ 65'-66.5'	P412024-02A	Soil	12/09/14	12/10/14	Glass Jar, 4 oz.
BH 2 @ 70'-71.5'	P412024-03A	Soil	12/09/14	12/10/14	Glass Jar, 4 oz.
BH 2 @ 75'-76.5'	P412024-04A	Soil	12/09/14	12/10/14	Glass Jar, 4 oz.
BH 2 @ 80'-81.5'	P412024-05A	Soil	12/09/14	12/10/14	Glass Jar, 4 oz.
BH 2 @ 85'-86.5'	P412024-06A	Soil	12/09/14	12/10/14	Glass Jar, 4 oz.

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
15-Dec-14 09:55

BH 2 @ 25'-26.5'

P412024-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	16.5	9.99	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	39.9	mg/kg	2	1450011	12/10/14	12/11/14	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		109 %		50-200	1450011	12/10/14	12/11/14	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		89.9 %		50-150	1450010	12/10/14	12/12/14	EPA 8015D	

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Project Number: Project Manager:	Florance GC J #16 03143-0424 Nelson Velez	Reported: 15-Dec-14 09:55
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BH 2 @ 65'-66.5'
P412024-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<u>Nonhalogenated Organics by 8015</u>									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1450011	12/10/14	12/11/14	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		95.4 %		50-200	1450011	12/10/14	12/11/14	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		94.0 %		50-150	1450010	12/10/14	12/12/14	EPA 8015D	

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Project Number: Project Manager:	Florance GC J #16 03143-0424 Nelson Velez	Reported: 15-Dec-14 09:55
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BH 2 @ 70'-71.5'**P412024-03 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Ethylbenzene	0.38	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
p,m-Xylene	1.43	0.20	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
o-Xylene	0.33	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Total Xylenes	1.76	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Total BTEX	2.14	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1450010	12/10/14	12/12/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	15.0	9.99	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1450011	12/10/14	12/11/14	EPA 8015D	
Surrogate: o-Terphenyl		109 %		50-200	1450011	12/10/14	12/11/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		91.7 %		50-150	1450010	12/10/14	12/12/14	EPA 8015D	

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Project Number: Project Manager:	Florance GC J #16 03143-0424 Nelson Velez	Reported: 15-Dec-14 09:55
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BH 2 @ 75'-76.5'
P412024-04 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %		50-150	1450010	12/10/14	12/12/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1450011	12/10/14	12/11/14	EPA 8015D	
Surrogate: o-Terphenyl		111 %		50-200	1450011	12/10/14	12/11/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		96.5 %		50-150	1450010	12/10/14	12/12/14	EPA 8015D	

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Project Number: Project Manager:	Florance GC J #16 03143-0424 Nelson Velez	Reported: 15-Dec-14 09:55
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BH 2 @ 80'-81.5'**P412024-05 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1450010	12/10/14	12/12/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1450011	12/10/14	12/11/14	EPA 8015D	
Surrogate: o-Terphenyl		94.0 %		50-200	1450011	12/10/14	12/11/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		93.7 %		50-150	1450010	12/10/14	12/12/14	EPA 8015D	

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

Project Name: Florance GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
15-Dec-14 09:55

BH 2 @ 85'-86.5'

P412024-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %		50-150	1450010	12/10/14	12/12/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1450010	12/10/14	12/12/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1450011	12/10/14	12/11/14	EPA 8015D	
Surrogate: o-Terphenyl		106 %		50-200	1450011	12/10/14	12/11/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		95.4 %		50-150	1450010	12/10/14	12/12/14	EPA 8015D	

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
15-Dec-14 09:55

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
Batch 1450010 - Purge and Trap EPA 5030A									
Blank (1450010-BLK1)									
Benzene	ND	0.10	mg/kg						
Toluene	ND	0.10	"						
Ethylbenzene	ND	0.10	"						
p,m-Xylene	ND	0.20	"						
o-Xylene	ND	0.10	"						
Total Xylenes	ND	0.10	"						
Total BTEX	ND	0.10	"						
Surrogate: 4-Bromochlorobenzene-PID	0.415	"		0.400		104	50-150		
LCS (1450010-BS1)									
Benzene	20.3	0.10	mg/kg	20.0		101	75-125		
Toluene	20.7	0.10	"	20.0		103	70-125		
Ethylbenzene	20.8	0.10	"	20.0		104	75-125		
p,m-Xylene	42.2	0.20	"	40.0		106	80-125		
o-Xylene	20.9	0.10	"	20.0		104	75-125		
Surrogate: 4-Bromochlorobenzene-PID	0.420	"		0.400		105	50-150		
Matrix Spike (1450010-MS1)									
Benzene	18.3	0.10	mg/kg	20.0	ND	91.4	75-125		
Toluene	18.4	0.10	"	20.0	ND	92.3	70-125		
Ethylbenzene	18.8	0.10	"	20.0	ND	94.3	75-125		
p,m-Xylene	38.3	0.20	"	39.9	ND	96.0	80-125		
o-Xylene	19.0	0.10	"	20.0	ND	95.1	75-125		
Surrogate: 4-Bromochlorobenzene-PID	0.426	"		0.399		107	50-150		
Matrix Spike Dup (1450010-MSD1)									
Benzene	19.8	0.10	mg/kg	20.0	ND	99.0	75-125	8.12	15
Toluene	20.0	0.10	"	20.0	ND	99.9	70-125	8.02	15
Ethylbenzene	20.3	0.10	"	20.0	ND	101	75-125	7.39	15
p,m-Xylene	41.3	0.20	"	40.0	ND	103	80-125	7.38	15
o-Xylene	20.6	0.10	"	20.0	ND	103	75-125	8.02	15
Surrogate: 4-Bromochlorobenzene-PID	0.435	"		0.400		109	50-150		

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
15-Dec-14 09:55

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 1450010 - Purge and Trap EPA 5030A									
Blank (1450010-BLK1) Prepared: 09-Dec-14 Analyzed: 10-Dec-14									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg						
Surrogate: 4-Bromochlorobenzene-FID	0.373	"		0.400		93.3	50-150		
LCS (1450010-BS1) Prepared: 09-Dec-14 Analyzed: 10-Dec-14									
Gasoline Range Organics (C6-C10)	292	10.0	mg/kg	292		100	80-120		
Surrogate: 4-Bromochlorobenzene-FID	0.378	"		0.400		94.5	50-150		
Matrix Spike (1450010-MS1) Source: P412021-01 Prepared: 09-Dec-14 Analyzed: 10-Dec-14									
Gasoline Range Organics (C6-C10)	267	9.98	mg/kg	292	ND	91.6	75-125		
Surrogate: 4-Bromochlorobenzene-FID	0.382	"		0.399		95.6	50-150		
Matrix Spike Dup (1450010-MSD1) Source: P412021-01 Prepared: 09-Dec-14 Analyzed: 10-Dec-14									
Gasoline Range Organics (C6-C10)	289	9.99	mg/kg	292	ND	99.1	75-125	7.96	15
Surrogate: 4-Bromochlorobenzene-FID	0.390	"		0.400		97.5	50-150		

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

Project Name: Florance GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
15-Dec-14 09:55

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Notes
Batch 1450011 - DRO Extraction EPA 3550M									
Blank (1450011-BLK1) Prepared: 09-Dec-14 Analyzed: 10-Dec-14									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg						
Surrogate: o-Terphenyl	42.5	"		40.0	106	50-200			
LCS (1450011-BS1) Prepared: 09-Dec-14 Analyzed: 10-Dec-14									
Diesel Range Organics (C10-C28)	462	25.0	mg/kg	499	92.7	38-132			
Surrogate: o-Terphenyl	42.6	"		39.9	107	50-200			
Matrix Spike (1450011-MS1) Source: P412021-01 Prepared: 09-Dec-14 Analyzed: 10-Dec-14									
Diesel Range Organics (C10-C28)	509	30.0	mg/kg	500	ND	102	38-132		
Surrogate: o-Terphenyl	49.9	"		40.0	125	50-200			
Matrix Spike Dup (1450011-MSD1) Source: P412021-01 Prepared: 09-Dec-14 Analyzed: 10-Dec-14									
Diesel Range Organics (C10-C28)	455	30.0	mg/kg	500	ND	91.1	38-132	11.3	20
Surrogate: o-Terphenyl	43.0	"		40.0	108	50-200			

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
15-Dec-14 09:55

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD

17915

Client: BP AMERICA		Project Name / Location: FLORENCE GC J #16				ANALYSIS / PARAMETERS													
Email results to: JEFF PEACE/ JEFF BLACK / NELSON VELEZ		Sampler Name: NELSON VELEZ																	
Client Phone No.: 505.320.3489		Client No.: 03143-0424																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		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	
					HNO ₃	HCl													
BH 2 @ 25'-26.5'	12/9/14	1010	P412024-01	1 - 4 oz			✓										✓✓		
BH 2 @ 65'-66.5'	12/9/14	1216	P412024-02	1 - 4 oz			✓										✓✓		
BH 2 @ 70'-71.5'	12/9/14	1247	P412024-03	1 - 4 oz			✓	✓									✓✓		
BH 2 @ 75'-76.5'	12/9/14	1313	P412024-04	1 - 4 oz			✓	✓									✓✓		
BH 2 @ 80'-81.5'	12/9/14	1400	P412024-05	1 - 4 oz			✓	✓									✓✓		
BH 2 @ 85'-86.5'	12/9/14	1453	P412024-06	1 - 4 oz			✓	✓									✓✓		
Relinquished by: (Signature) <i>M. V</i>					Date 12/10/14	Time 0730	Received by: (Signature) <i>Jeff Black</i>					Date 12/10/14	Time 0730						
Relinquished by: (Signature) <i>Jeff Black</i>					12/10/14	0849	Received by: (Signature) <i>L. Erek</i>					12/10/14	0849						
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>							BILL BP A PO HAS BEEN ISSUED TO Envirotech												
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			
5.4		5.4		5.8		5.6		envirotech Analytical Laboratory											
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san juan reproduction 578-129																			



Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number: 17916

Samples Received: 12/10/2014 2:01:00PM

Job Number: 03143-0424

Work Order: P412028

Project Name/Location: Florance GC J #16

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'T. Cain'.

Date: 12/18/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



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

Project Name: Florance GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
18-Dec-14 10:14

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH3 @ 25'-26.5'	P412028-01A	Soil	12/10/14	12/10/14	Glass Jar, 4 oz.
BH3 @ 30'-31.5'	P412028-02A	Soil	12/10/14	12/10/14	Glass Jar, 4 oz.
BH3 @ 50'-51.5'	P412028-03A	Soil	12/10/14	12/10/14	Glass Jar, 4 oz.
BH3 @ 70-71.5'	P412028-04A	Soil	12/10/14	12/10/14	Glass Jar, 4 oz.

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
18-Dec-14 10:14

BH3 @ 25'-26.5'

P412028-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1450019	12/11/14	12/11/14	EPA 8021B	
Toluene	1.28	0.10	mg/kg	1	1450019	12/11/14	12/11/14	EPA 8021B	
Ethylbenzene	6.99	0.10	mg/kg	1	1450019	12/11/14	12/11/14	EPA 8021B	
p,m-Xylene	73.1	0.20	mg/kg	1	1450019	12/11/14	12/11/14	EPA 8021B	
o-Xylene	13.3	0.10	mg/kg	1	1450019	12/11/14	12/11/14	EPA 8021B	
Total Xylenes	86.4	0.10	mg/kg	1	1450019	12/11/14	12/11/14	EPA 8021B	
Total BTEX	94.7	0.10	mg/kg	1	1450019	12/11/14	12/11/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1450019	12/11/14	12/11/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	795	10.0	mg/kg	1	1450019	12/11/14	12/11/14	EPA 8015D	
Diesel Range Organics (C10-C28)	577	35.0	mg/kg	1	1450022	12/11/14	12/11/14	EPA 8015D	
Surrogate: o-Terphenyl		120 %		50-200	1450022	12/11/14	12/11/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		89.7 %		50-150	1450019	12/11/14	12/11/14	EPA 8015D	

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Project Name: Florance GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
18-Dec-14 10:14

BH3 @ 30'-31.5'

P412028-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	0.15	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Toluene	4.24	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Ethylbenzene	12.3	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
p,m-Xylene	120	0.20	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
o-Xylene	23.5	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Total Xylenes	144	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Total BTEX	160	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		113 %		50-150	1450019	12/11/14	12/16/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	1500	9.98	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8015D	E
Diesel Range Organics (C10-C28)	630	34.9	mg/kg	1	1450022	12/11/14	12/12/14	EPA 8015D	
Surrogate: o-Terphenyl		159 %		50-200	1450022	12/11/14	12/12/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		102 %		50-150	1450019	12/11/14	12/16/14	EPA 8015D	

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
18-Dec-14 10:14

BH3 @ 50'-51.5'
P412028-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	3.76	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Toluene	116	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Ethylbenzene	33.7	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
p,m-Xylene	268	0.20	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
o-Xylene	58.5	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Total Xylenes	327	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Total BTEX	480	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1450019	12/11/14	12/16/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	6490	9.99	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8015D	
Diesel Range Organics (C10-C28)	1400	35.0	mg/kg	1	1450022	12/11/14	12/12/14	EPA 8015D	
Surrogate: o-Terphenyl		144 %		50-200	1450022	12/11/14	12/12/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		125 %		50-150	1450019	12/11/14	12/16/14	EPA 8015D	

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Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
18-Dec-14 10:14

BH3 @ 70-71.5'
P412028-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	2.77	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Toluene	56.7	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Ethylbenzene	15.5	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
p,m-Xylene	132	0.20	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
o-Xylene	29.2	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Total Xylenes	161	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Total BTEX	236	0.10	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	106 %		50-150		1450019	12/11/14	12/16/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	2600	9.98	mg/kg	1	1450019	12/11/14	12/16/14	EPA 8015D	E
Diesel Range Organics (C10-C28)	879	29.9	mg/kg	1	1450022	12/11/14	12/12/14	EPA 8015D	
Surrogate: o-Terphenyl	118 %		50-200		1450022	12/11/14	12/12/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID	93.7 %		50-150		1450019	12/11/14	12/16/14	EPA 8015D	

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
18-Dec-14 10:14

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 1450019 - Purge and Trap EPA 5030A

Blank (1450019-BLK1)		Prepared & Analyzed: 11-Dec-14					
Benzene	ND	0.10	mg/kg				
Toluene	ND	0.10	"				
Ethylbenzene	ND	0.10	"				
p,m-Xylene	ND	0.20	"				
o-Xylene	ND	0.10	"				
Total Xylenes	ND	0.10	"				
Total BTEX	ND	0.10	"				
Surrogate: 4-Bromochlorobenzene-PID	0.392	"		0.400	98.0	50-150	

LCS (1450019-BS1)		Prepared & Analyzed: 11-Dec-14					
Benzene	21.7	0.10	mg/kg	20.0	109	75-125	
Toluene	20.4	0.10	"	20.0	102	70-125	
Ethylbenzene	21.0	0.10	"	20.0	105	75-125	
p,m-Xylene	42.8	0.20	"	39.9	107	80-125	
o-Xylene	21.6	0.10	"	20.0	108	75-125	
Surrogate: 4-Bromochlorobenzene-PID	0.546	"		0.399	137	50-150	

Matrix Spike (1450019-MS1)		Source: P412028-01 Prepared & Analyzed: 11-Dec-14					
Benzene	18.6	0.10	mg/kg	19.9	ND	93.4	75-125
Toluene	25.9	0.10	"	19.9	1.28	123	70-125
Ethylbenzene	28.2	0.10	"	19.9	6.99	106	75-125
p,m-Xylene	119	0.20	"	39.9	73.1	115	80-125
o-Xylene	31.5	0.10	"	19.9	13.3	91.2	75-125
Surrogate: 4-Bromochlorobenzene-PID	0.418	"		0.399	105	50-150	

Matrix Spike Dup (1450019-MSD1)		Source: P412028-01 Prepared & Analyzed: 11-Dec-14					
Benzene	20.1	0.10	mg/kg	20.0	ND	101	75-125
Toluene	28.2	0.10	"	20.0	1.28	135	70-125
Ethylbenzene	32.0	0.10	"	20.0	6.99	125	75-125
p,m-Xylene	145	0.20	"	40.0	73.1	180	80-125
o-Xylene	43.8	0.10	"	20.0	13.3	153	75-125
Surrogate: 4-Bromochlorobenzene-PID	0.426	"		0.400	107	50-150	

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
18-Dec-14 10:14

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 1450019 - Purge and Trap EPA 5030A

Blank (1450019-BLK1)					Prepared & Analyzed: 11-Dec-14					
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.355	"		0.400		88.9	50-150			
LCS (1450019-BS1)										
Gasoline Range Organics (C6-C10)	315	9.98	mg/kg	292		108	80-120			
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.508	"		0.399		127	50-150			
Matrix Spike (1450019-MS1)										
Gasoline Range Organics (C6-C10)	1160	9.96	mg/kg	291	795	124	75-125			
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.387	"		0.399		97.1	50-150			
Matrix Spike Dup (1450019-MSD1)										
Gasoline Range Organics (C6-C10)	1220	9.99	mg/kg	292	795	145	75-125	5.18	15	SPK1
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.373	"		0.400		93.4	50-150			

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Florance GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
18-Dec-14 10:14

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 1450022 - DRO Extraction EPA 3550M										
Blank (1450022-BLK1)										
Prepared & Analyzed: 11-Dec-14										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	41.1	"		40.0	103	50-200				
LCS (1450022-BS1)										
Prepared & Analyzed: 11-Dec-14										
Diesel Range Organics (C10-C28)	627	25.0	mg/kg	499	126	38-132				
Surrogate: o-Terphenyl	50.2	"		39.9	126	50-200				
Matrix Spike (1450022-MS1)										
Source: P412028-01 Prepared & Analyzed: 11-Dec-14										
Diesel Range Organics (C10-C28)	937	35.0	mg/kg	499	577	72.0	38-132			
Surrogate: o-Terphenyl	28.9	"		40.0	72.4	50-200				
Matrix Spike Dup (1450022-MSD1)										
Source: P412028-01 Prepared & Analyzed: 11-Dec-14										
Diesel Range Organics (C10-C28)	1200	35.0	mg/kg	500	577	124	38-132	24.4	20	D1
Surrogate: o-Terphenyl	71.5	"		40.0	179	50-200				

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BP America Production Co.
PO Box 22024
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Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
18-Dec-14 10:14

Notes and Definitions

SPK1	The spike recovery for this QC sample is outside of control limits.
E	Analyte was present at a concentration greater than the calibration curve upper limit.
D1	Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD

17916

Client: <i>BP AMERICA</i>		Project Name / Location: <i>FLORENCE GC J #16</i>				ANALYSIS / PARAMETERS											
Email results to: <i>JEFF PEACE / JEFF BLACK / NELSON VELEZ</i>		Sampler Name: <i>NELSON VELEZ</i>				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
Client Phone No.:		Client No.: <i>03143-0424</i>															
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative												
					HNO ₃	HCl											
<i>BH3 C 25'-26.5'</i>	<i>12/10/14</i>	<i>0910</i>	<i>P412028-01</i>	<i>1 - 4 oz.</i>			✓	✓								X X	
<i>BH3 C 30'-31.5'</i>	<i>12/10/14</i>	<i>0919</i>	<i>P412028-02</i>	<i>1 - 4 oz.</i>			✓	✓								X X	
<i>BH3 C 50'-51.5'</i>	<i>12/10/14</i>	<i>1007</i>	<i>P412028-13</i>	<i>1 - 4 oz.</i>			✓	✓								X X	
<i>BH3 C 70'-71.5'</i>	<i>12/10/14</i>	<i>1131</i>	<i>P412028-04</i>	<i>1 - 4 oz.</i>			✓	✓								X X	
Relinquished by: (Signature) <i>Nelson VJ</i>	Date <i>12/10/14</i>	Time <i>1315</i>	Received by: (Signature) <i>Jeff Black</i>	Date <i>12/10/14</i>	Time <i>1315</i>												
Relinquished by: (Signature) <i>Jeff Black</i>	<i>12/10/14</i>	<i>1401</i>	Received by: (Signature) <i>Minam Jor</i>	<i>12-10-14</i>	<i>14.01</i>												
Sample Matrix <i>Soil</i> <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other _____																	

Sample(s) dropped off after hours to secure drop off area.

3.4
3.8
4.1

3.8



Bill BP
PO has been sent to Envirotech



Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number: 17917

Samples Received: 12/11/2014 12:18:00PM

Job Number: 03143-0424

Work Order: P412039

Project Name/Location: Florance GC J #16

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'T. Cain'.

Date: 12/19/14

Tim Cain, Laboratory Manager

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

Project Name: Florance GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
19-Dec-14 13:04

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH4 @ 30'-31.5'	P412039-01A	Soil	12/10/14	12/11/14	Glass Jar, 4 oz.
BH4 @ 45'-46.5'	P412039-02A	Soil	12/10/14	12/11/14	Glass Jar, 4 oz.
BH4 @ 60'-61.5'	P412039-03A	Soil	12/10/14	12/11/14	Glass Jar, 4 oz.

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Project Number: Project Manager:	Florance GC J #16 03143-0424 Nelson Velez	Reported: 19-Dec-14 13:04
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BH4 @ 30'-31.5'

P412039-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		108 %		50-150	1450026	12/15/14	12/18/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1451001	12/15/14	12/17/14	EPA 8015D	
Surrogate: o-Terphenyl		104 %		50-200	1451001	12/15/14	12/17/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		96.7 %		50-150	1450026	12/15/14	12/18/14	EPA 8015D	

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Project Number: Project Manager:	Florance GC J #16 03143-0424 Nelson Velez	Reported: 19-Dec-14 13:04
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**BH4 @ 45'-46.5'
P412039-02 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		110 %		50-150	1450026	12/15/14	12/18/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	11.2	9.98	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8015D	
Diesel Range Organics (C10-C28)	31.3	29.9	mg/kg	1	1451001	12/15/14	12/17/14	EPA 8015D	
Surrogate: o-Terphenyl		105 %		50-200	1451001	12/15/14	12/17/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		99.1 %		50-150	1450026	12/15/14	12/18/14	EPA 8015D	

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
19-Dec-14 13:04

BH4 @ 60'-61.5'

P412039-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	1450026	12/15/14	12/18/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1450026	12/15/14	12/18/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1451001	12/15/14	12/17/14	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		105 %		50-200	1451001	12/15/14	12/17/14	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		97.3 %		50-150	1450026	12/15/14	12/18/14	EPA 8015D	

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Project Number: Project Manager:	Florance GC J #16 03143-0424 Nelson Velez	Reported: 19-Dec-14 13:04
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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 1450026 - Purge and Trap EPA 5030A

Blank (1450026-BLK1)					Prepared: 15-Dec-14	Analyzed: 17-Dec-14			
Benzene	ND	0.10	mg/kg						
Toluene	ND	0.10	"						
Ethylbenzene	ND	0.10	"						
p,m-Xylene	ND	0.20	"						
o-Xylene	ND	0.10	"						
Total Xylenes	ND	0.10	"						
Total BTEX	ND	0.10	"						
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.420	"		0.399		105	50-150		
LCS (1450026-BS1)					Prepared: 15-Dec-14	Analyzed: 17-Dec-14			
Benzene	21.8	0.10	mg/kg	20.0		109	75-125		
Toluene	22.0	0.10	"	20.0		110	70-125		
Ethylbenzene	22.5	0.10	"	20.0		113	75-125		
p,m-Xylene	45.5	0.20	"	39.9		114	80-125		
o-Xylene	22.8	0.10	"	20.0		114	75-125		
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.427	"		0.399		107	50-150		
Matrix Spike (1450026-MS1)			Source: P412029-01		Prepared: 15-Dec-14	Analyzed: 17-Dec-14			
Benzene	21.7	0.10	mg/kg	20.0	ND	109	75-125		
Toluene	22.0	0.10	"	20.0	ND	110	70-125		
Ethylbenzene	22.4	0.10	"	20.0	ND	112	75-125		
p,m-Xylene	45.3	0.20	"	40.0	ND	113	80-125		
o-Xylene	22.4	0.10	"	20.0	ND	112	75-125		
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.421	"		0.400		105	50-150		
Matrix Spike Dup (1450026-MSD1)			Source: P412029-01		Prepared: 15-Dec-14	Analyzed: 17-Dec-14			
Benzene	20.4	0.10	mg/kg	20.0	ND	102	75-125	6.25	15
Toluene	20.8	0.10	"	20.0	ND	104	70-125	5.41	15
Ethylbenzene	21.0	0.10	"	20.0	ND	105	75-125	6.31	15
p,m-Xylene	42.5	0.20	"	40.0	ND	106	80-125	6.39	15
o-Xylene	21.3	0.10	"	20.0	ND	107	75-125	5.25	15
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	0.430	"		0.400		108	50-150		

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
19-Dec-14 13:04

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 1450026 - Purge and Trap EPA 5030A

Blank (1450026-BLK1) Prepared: 15-Dec-14 Analyzed: 17-Dec-14

Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	"	0.399	96.9	50-150
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Surrogate: 4-Bromochlorobenzene-FID

LCS (1450026-BS1) Prepared: 15-Dec-14 Analyzed: 17-Dec-14

Gasoline Range Organics (C6-C10)	318	9.99	mg/kg	292	109	80-120
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Surrogate: 4-Bromochlorobenzene-FID

Matrix Spike (1450026-MS1) Source: P412029-01 Prepared: 15-Dec-14 Analyzed: 17-Dec-14

Gasoline Range Organics (C6-C10)	317	9.99	mg/kg	292	ND	109	75-125
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Surrogate: 4-Bromochlorobenzene-FID

Matrix Spike Dup (1450026-MSD1) Source: P412029-01 Prepared: 15-Dec-14 Analyzed: 17-Dec-14

Gasoline Range Organics (C6-C10)	299	9.99	mg/kg	292	ND	102	75-125	6.03	15
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Surrogate: 4-Bromochlorobenzene-FID

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
19-Dec-14 13:04

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 1451001 - DRO Extraction EPA 3550M

Blank (1451001-BLK1)

Diesel Range Organics (C10-C28) ND 29.9 mg/kg Prepared: 15-Dec-14 Analyzed: 17-Dec-14

Surrogate: *o-Terphenyl* 43.9 " 39.9 110 50-200

LCS (1451001-BS1)

Diesel Range Organics (C10-C28) 468 29.9 mg/kg 499 93.7 38-132 Prepared: 15-Dec-14 Analyzed: 17-Dec-14

Surrogate: *o-Terphenyl* 39.7 " 39.9 99.4 50-200

Matrix Spike (1451001-MS1)

Diesel Range Organics (C10-C28) 564 30.0 mg/kg 500 ND 113 38-132 Prepared: 15-Dec-14 Analyzed: 17-Dec-14

Surrogate: *o-Terphenyl* 51.4 " 40.0 129 50-200

Matrix Spike Dup (1451001-MSD1)

Diesel Range Organics (C10-C28) 524 29.9 mg/kg 499 ND 105 38-132 Source: P412029-01 Prepared: 15-Dec-14 Analyzed: 17-Dec-14

Surrogate: *o-Terphenyl* 44.9 " 39.9 112 50-200

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
19-Dec-14 13:04

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD

17917

Client: BP AMERICA		Project Name / Location: FLORANCE GC J #16		ANALYSIS / PARAMETERS																
Email results to: JEFF PEACE / JEFF BLASSE / NELSON VELZ		Sampler Name: Nelson Velez																		
Client Phone No.: 505.320.3489		Client No.: 03143-0424																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers		Preservative		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	
				HNO ₃	HCl															
BH4 @ 30'-31.5'	12/10/14	1500	P412038-01	1 - 4oz.				✓	✓										✓✓	
BH4 @ 45'-46.5'	12/11/14	0909	P412038-02	1 - 4oz.						✓	✓								✓✓	
BH4 @ 60'-61.5'	12/11/14	1002	P412038-03	1 - 4oz.						✓	✓								✓✓	
Relinquished by: (Signature) John VJ								Date 12/11/14	Time 1218	Received by: (Signature) J Clark								Date 12/11/14	Time 1218	
Relinquished by: (Signature)								Received by: (Signature)												
Sample Matrix																				
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																				
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																				



8.2 10.6
8.9



Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number: 17918

Samples Received: 12/15/2014 3:57:00PM

Job Number: 03143-0424

Work Order: P412045

Project Name/Location: Florance GC J #16

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read "T. Cain".

Date: 12/23/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



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

Project Name: Florance GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
23-Dec-14 11:40

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH4 @ 70'-71.5'	P412045-01A	Solid	12/15/14	12/15/14	Glass Jar, 4 oz.
BH4 @ 80'-81.5'	P412045-02A	Solid	12/15/14	12/15/14	Glass Jar, 4 oz.
BH4 @ 90'-91'	P412045-03A	Solid	12/15/14	12/15/14	Glass Jar, 4 oz.

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
23-Dec-14 11:40

BH4 @ 70'-71.5'

P412045-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1451009	12/16/14	12/17/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1451009	12/16/14	12/17/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1451009	12/16/14	12/17/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1451009	12/16/14	12/17/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1451009	12/16/14	12/17/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1451009	12/16/14	12/17/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1451009	12/16/14	12/17/14	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %		50-150	1451009	12/16/14	12/17/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1451009	12/16/14	12/17/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1451008	12/16/14	12/17/14	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		108 %		50-200	1451008	12/16/14	12/17/14	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		96.3 %		50-150	1451009	12/16/14	12/17/14	EPA 8015D	

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Project Number: Project Manager:	Florance GC J #16 03143-0424 Nelson Velez	Reported: 23-Dec-14 11:40
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**BH4 @ 80'-81.5'
P412045-02 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
Toluene	0.13	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
p,m-Xylene	0.41	0.20	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
o-Xylene	0.23	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
Total Xylenes	0.64	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
Total BTEX	0.78	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		116 %		50-150	1451009	12/16/14	12/22/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	31.7	9.99	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1451008	12/16/14	12/18/14	EPA 8015D	
Surrogate: o-Terphenyl		115 %		50-200	1451008	12/16/14	12/18/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		106 %		50-150	1451009	12/16/14	12/22/14	EPA 8015D	

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

Project Name: Florance GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
23-Dec-14 11:40

BH4 @ 90'-91'
P412045-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
Toluene	0.13	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
p,m-Xylene	1.58	0.20	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
o-Xylene	0.37	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
Total Xylenes	1.95	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
Total BTEX	2.07	0.10	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		116 %		50-150	1451009	12/16/14	12/22/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	81.7	9.98	mg/kg	1	1451009	12/16/14	12/22/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1451008	12/16/14	12/18/14	EPA 8015D	
Surrogate: o-Terphenyl		110 %		50-200	1451008	12/16/14	12/18/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		106 %		50-150	1451009	12/16/14	12/22/14	EPA 8015D	

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
23-Dec-14 11:40

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	RPD Limits	RPD	Limit	Notes
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Batch 1451009 - Purge and Trap EPA 5030A

Blank (1451009-BLK1) Prepared: 16-Dec-14 Analyzed: 17-Dec-14

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							

Surrogate: 4-Bromochlorobenzene-PID 0.428 " 0.399 107 50-150

LCS (1451009-BS1) Prepared: 16-Dec-14 Analyzed: 17-Dec-14

Benzene	21.4	0.10	mg/kg	19.9	108	75-125				
Toluene	21.9	0.10	"	19.9	110	70-125				
Ethylbenzene	22.1	0.10	"	19.9	111	75-125				
p,m-Xylene	44.7	0.20	"	39.9	112	80-125				
o-Xylene	22.2	0.10	"	19.9	111	75-125				

Surrogate: 4-Bromochlorobenzene-PID 0.420 " 0.399 105 50-150

Matrix Spike (1451009-MS1) Source: P412045-01 Prepared: 16-Dec-14 Analyzed: 17-Dec-14

Benzene	21.7	0.10	mg/kg	20.0	ND	109	75-125			
Toluene	22.2	0.10	"	20.0	ND	111	70-125			
Ethylbenzene	22.4	0.10	"	20.0	ND	112	75-125			
p,m-Xylene	45.2	0.20	"	39.9	ND	113	80-125			
o-Xylene	22.4	0.10	"	20.0	ND	112	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.398 " 0.399 99.8 50-150

Matrix Spike Dup (1451009-MSD1) Source: P412045-01 Prepared: 16-Dec-14 Analyzed: 17-Dec-14

Benzene	22.0	0.10	mg/kg	20.0	ND	110	75-125	1.57	15	
Toluene	22.5	0.10	"	20.0	ND	113	70-125	1.49	15	
Ethylbenzene	22.7	0.10	"	20.0	ND	114	75-125	1.43	15	
p,m-Xylene	45.8	0.20	"	39.9	ND	115	80-125	1.47	15	
o-Xylene	22.8	0.10	"	20.0	ND	114	75-125	1.83	15	

Surrogate: 4-Bromochlorobenzene-PID 0.402 " 0.399 101 50-150

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
23-Dec-14 11:40

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 1451008 - DRO Extraction EPA 3550M

Blank (1451008-BLK1) Prepared: 16-Dec-14 Analyzed: 17-Dec-14

Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
<i>Surrogate: o-Terphenyl</i>	41.7	"		39.9		105	50-200			

LCS (1451008-BS1) Prepared: 16-Dec-14 Analyzed: 17-Dec-14

Diesel Range Organics (C10-C28)	487	25.0	mg/kg	500		97.5	38-132			
<i>Surrogate: o-Terphenyl</i>	40.9	"		40.0		102	50-200			

Matrix Spike (1451008-MS1) Source: P412045-01 Prepared: 16-Dec-14 Analyzed: 17-Dec-14

Diesel Range Organics (C10-C28)	711	29.9	mg/kg	498	ND	143	38-132			SPK1
<i>Surrogate: o-Terphenyl</i>	57.8	"		39.9		145	50-200			

Matrix Spike Dup (1451008-MSD1) Source: P412045-01 Prepared: 16-Dec-14 Analyzed: 17-Dec-14

Diesel Range Organics (C10-C28)	658	30.0	mg/kg	499	ND	132	38-132	7.76	20	
<i>Surrogate: o-Terphenyl</i>	53.1	"		39.9		133	50-200			

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
23-Dec-14 11:40

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 1451009 - Purge and Trap EPA 5030A										
Blank (1451009-BLK1)										
Prepared: 16-Dec-14 Analyzed: 17-Dec-14										
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg							
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.383	"		0.399		95.9	50-150			
LCS (1451009-BS1)										
Prepared: 16-Dec-14 Analyzed: 17-Dec-14										
Gasoline Range Organics (C6-C10)	312	9.97	mg/kg	291		107	80-120			
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.379	"		0.399		94.9	50-150			
Matrix Spike (1451009-MS1)										
Source: P412045-01 Prepared: 16-Dec-14 Analyzed: 17-Dec-14										
Gasoline Range Organics (C6-C10)	314	9.98	mg/kg	291	ND	108	75-125			
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.358	"		0.399		89.6	50-150			
Matrix Spike Dup (1451009-MSD1)										
Source: P412045-01 Prepared: 16-Dec-14 Analyzed: 17-Dec-14										
Gasoline Range Organics (C6-C10)	318	9.98	mg/kg	292	ND	109	75-125	1.15	15	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>	0.362	"		0.399		90.7	50-150			

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
23-Dec-14 11:40

Notes and Definitions

SPK1	The spike recovery for this QC sample is outside of control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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CHAIN OF CUSTODY RECORD

17918

Client: BP AMERICA		Project Name / Location: FLORENCE GC J #16				ANALYSIS / PARAMETERS													
Email results to: JEFF PEACE / JEFF BLAGG / NELSON VELEZ		Sampler Name: NELSON VELEZ				<input checked="" type="checkbox"/> TPH (Method 8015)	<input checked="" type="checkbox"/> BTEX (Method 8021)	<input checked="" type="checkbox"/> VOC (Method 8260)	<input checked="" type="checkbox"/> RCRA 8 Metals	<input checked="" type="checkbox"/> Cation / Anion	<input checked="" type="checkbox"/> RCI	<input checked="" type="checkbox"/> TCLP with H/P	<input checked="" type="checkbox"/> CO Table 910-1	<input checked="" type="checkbox"/> TPH (418.1)	<input checked="" type="checkbox"/> CHLORIDE	<input checked="" type="checkbox"/> Sample Cool	<input checked="" type="checkbox"/> Sample Intact		
Client Phone No.: 505. 320. 3489		Client No.: 03143-0424				<input checked="" type="checkbox"/> HNO ₃	<input checked="" type="checkbox"/> HCl	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Sample No./ Identification BH4 @ 70'-71.5'	Sample Date 12/15/14	Sample Time 0905	Lab No. P412045-01	No./Volume of Containers 1 - 4 oz.									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
BH4 @ 80'-81.5'	12/15/14	0944	P412045-02	1 - 4 oz.									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
BH4 @ 90'-91'	12/15/14	1106	P412045-03	1 - 4 oz.									<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Relinquished by: (Signature) Rene VJ					Date 12/15/14	Time 1557	Received by: (Signature) Rene BX 305								Date 12/15/14	Time 15:57			
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other _____																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			
Bill BP per Nelson WO:N15562633 P043003C4448					 envirotech Analytical Laboratory										14.4	17.2			
															16.1				
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Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number: 17919

Samples Received: 12/17/2014 1:51:00PM

Job Number: 03143-0424

Work Order: P412067

Project Name/Location: Florance GC J #16

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read "T. Cain".

Date: 12/24/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
24-Dec-14 13:31

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH5 @ 55'-56.5'	P412067-01A	Soil	12/17/14	12/17/14	Glass Jar, 4 oz.
BH5 @ 60'-61.5'	P412067-02A	Soil	12/17/14	12/17/14	Glass Jar, 4 oz.
BH5 @ 65'-66.5'	P412067-03A	Soil	12/17/14	12/17/14	Glass Jar, 4 oz.
BH5 @ 75'-76'	P412067-04A	Soil	12/17/14	12/17/14	Glass Jar, 4 oz.

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
24-Dec-14 13:31

BH5 @ 55'-56.5'
P412067-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1451042	12/19/14	12/23/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1451041	12/19/14	12/22/14	EPA 8015D	
Surrogate: o-Terphenyl		116 %		50-200	1451041	12/19/14	12/22/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		91.7 %		50-150	1451042	12/19/14	12/23/14	EPA 8015D	

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Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
24-Dec-14 13:31

BH5 @ 60'-61.5'
P412067-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
p,m-Xylene	0.22	0.20	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
o-Xylene	0.17	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	B
Total Xylenes	0.39	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
Total BTEX	0.39	0.10	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	98.8 %	50-150		1451042	12/19/14	12/23/14	EPA 8021B		
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	11.5	9.98	mg/kg	1	1451042	12/19/14	12/23/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1451041	12/19/14	12/22/14	EPA 8015D	
Surrogate: o-Terphenyl	109 %	50-200		1451041	12/19/14	12/22/14	EPA 8015D		
Surrogate: 4-Bromochlorobenzene-FID	90.6 %	50-150		1451042	12/19/14	12/23/14	EPA 8015D		

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Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
24-Dec-14 13:31

BH5 @ 65'-66.5'
P412067-03 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	102 %	50-150		1451042	12/19/14	12/24/14	EPA 8021B		
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1451041	12/19/14	12/22/14	EPA 8015D	
Surrogate: o-Terphenyl	112 %	50-200		1451041	12/19/14	12/22/14	EPA 8015D		
Surrogate: 4-Bromochlorobenzene-FID	91.1 %	50-150		1451042	12/19/14	12/24/14	EPA 8015D		

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Project Number: Project Manager:	Florance GC J #16 03143-0424 Nelson Velez	Reported: 24-Dec-14 13:31
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BH5 @ 75'-76'
P412067-04 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID	101 %	50-150			1451042	12/19/14	12/24/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1451042	12/19/14	12/24/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1451041	12/19/14	12/22/14	EPA 8015D	
Surrogate: o-Terphenyl	113 %	50-200			1451041	12/19/14	12/22/14	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID	90.7 %	50-150			1451042	12/19/14	12/24/14	EPA 8015D	

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PO Box 22024
Tulsa OK, 74121-2024

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
24-Dec-14 13:31

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1451042 - Purge and Trap EPA 5030A

Blank (1451042-BLK1)		Prepared: 19-Dec-14 Analyzed: 23-Dec-14					
Benzene	ND	0.10	mg/kg				
Toluene	ND	0.10	"				
Ethylbenzene	ND	0.10	"				
p,m-Xylene	ND	0.20	"				
o-Xylene	0.15	0.10	"				
Total Xylenes	0.15	0.10	"				
Total BTEX	0.15	0.10	"				
Surrogate: 4-Bromochlorobenzene-PID	0.417	"		0.400	104	50-150	
LCS (1451042-BS1)		Prepared: 19-Dec-14 Analyzed: 23-Dec-14					
Benzene	21.7	0.10	mg/kg	19.9	109	75-125	
Toluene	22.4	0.10	"	19.9	112	70-125	
Ethylbenzene	22.5	0.10	"	19.9	113	75-125	
p,m-Xylene	45.8	0.20	"	39.9	115	80-125	
o-Xylene	22.6	0.10	"	19.9	113	75-125	
Surrogate: 4-Bromochlorobenzene-PID	0.417	"		0.399	105	50-150	
Matrix Spike (1451042-MS1)		Source: P412067-01		Prepared: 19-Dec-14 Analyzed: 23-Dec-14			
Benzene	22.3	0.10	mg/kg	20.0	ND	112	75-125
Toluene	22.9	0.10	"	20.0	ND	115	70-125
Ethylbenzene	23.0	0.10	"	20.0	ND	115	75-125
p,m-Xylene	46.5	0.20	"	40.0	ND	116	80-125
o-Xylene	23.1	0.10	"	20.0	ND	115	75-125
Surrogate: 4-Bromochlorobenzene-PID	0.416	"		0.400	104	50-150	
Matrix Spike Dup (1451042-MSD1)		Source: P412067-01		Prepared: 19-Dec-14 Analyzed: 23-Dec-14			
Benzene	22.4	0.10	mg/kg	20.0	ND	112	75-125
Toluene	22.9	0.10	"	20.0	ND	114	70-125
Ethylbenzene	23.2	0.10	"	20.0	ND	116	75-125
p,m-Xylene	46.4	0.20	"	40.0	ND	116	80-125
o-Xylene	23.2	0.10	"	20.0	ND	116	75-125
Surrogate: 4-Bromochlorobenzene-PID	0.402	"		0.400	101	50-150	

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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
24-Dec-14 13:31

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1451041 - DRO Extraction EPA 3550M

Blank (1451041-BLK1)

Diesel Range Organics (C10-C28) ND 30.0 mg/kg Prepared: 19-Dec-14 Analyzed: 22-Dec-14

Surrogate: *o-Terphenyl* 42.7 " 40.0 107 50-200

LCS (1451041-BS1)

Diesel Range Organics (C10-C28) 535 30.0 mg/kg 500 Prepared: 19-Dec-14 Analyzed: 22-Dec-14

Surrogate: *o-Terphenyl* 44.2 " 40.0 133 50-200

Matrix Spike (1451041-MS1)

Source: P412067-01 Prepared: 19-Dec-14 Analyzed: 22-Dec-14

Diesel Range Organics (C10-C28) 691 30.0 mg/kg 500 ND 138 38-132 SPK1

Surrogate: *o-Terphenyl* 53.0 " 40.0 133 50-200

Matrix Spike Dup (1451041-MSD1)

Source: P412067-01 Prepared: 19-Dec-14 Analyzed: 22-Dec-14

Diesel Range Organics (C10-C28) 579 29.9 mg/kg 499 ND 116 38-132 17.7 20

Surrogate: *o-Terphenyl* 47.2 " 39.9 118 50-200

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

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

envirotech-inc.com

laboratory@envirotech-inc.com



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

Project Name: Florence GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
24-Dec-14 13:31

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-----------	-------

Batch 1451042 - Purge and Trap EPA 5030A

Blank (1451042-BLK1) Prepared: 19-Dec-14 Analyzed: 23-Dec-14

Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.373	"		0.400		93.2	50-150			

LCS (1451042-BS1) Prepared: 19-Dec-14 Analyzed: 23-Dec-14

Gasoline Range Organics (C6-C10)	323	9.97	mg/kg	291		111	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.374	"		0.399		93.9	50-150			

Matrix Spike (1451042-MS1) Source: P412067-01 Prepared: 19-Dec-14 Analyzed: 23-Dec-14

Gasoline Range Organics (C6-C10)	325	9.99	mg/kg	292	ND	112	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.374	"		0.400		93.6	50-150			

Matrix Spike Dup (1451042-MSD1) Source: P412067-01 Prepared: 19-Dec-14 Analyzed: 23-Dec-14

Gasoline Range Organics (C6-C10)	330	9.99	mg/kg	292	ND	113	75-125	1.22	15	
Surrogate: 4-Bromochlorobenzene-FID	0.361	"		0.400		90.4	50-150			

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

Project Name: Florance GC J #16
Project Number: 03143-0424
Project Manager: Nelson Velez

Reported:
24-Dec-14 13:31

Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

B Analyte is found in the associated blank.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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CHAIN OF CUSTODY RECORD

17919

Client: BP AMERICA		Project Name / Location: FLORENCE EC T #16		ANALYSIS / PARAMETERS														
Email results to: JEFF PEACE / JEFF BLASS / NELSON VELIZ		Sampler Name: NELSON VELIZ																
Client Phone No.: 505.320.3489		Client No.: 03143-0424																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		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
					HNO ₃	HCl												
BH5 @ 55'-56.5'	12/17/14	0957	P412067-01	1 - 4 oz.			✓	✓									✓	✓
BH5 @ 60'-61.5'	12/17/14	1017	P412067-02	1 - 4 oz.			✓	✓									1	1
BH5 @ 65'-66.5'	12/17/14	1043	P412067-03	1 - 4 oz.			✓	✓									1	1
BH5 @ 75'-76'	12/17/14	1130	P412067-04	1 - 4 oz.			✓	✓									1	1
Relinquished by: (Signature) <i>Nelso V</i>					Date 12/17/14	Time 13:51	Received by: (Signature) <i>Dene Bazzar</i>								Date 12/17/14	Time 13:51		
Relinquished by: (Signature)							Received by: (Signature)											
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																		
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																		
BILL BP DIRECTLY N15562633		4300384448		 envirotech Analytical Laboratory 16.6 17.3 15.8 														
5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com																		

CLIENT: BP

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

API #: 3004509800

TANK ID:
(if applicable): A & B**FIELD REPORT:**

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:

PAGE #: 1 of 1

SITE INFORMATION:SITE NAME: **FLORANCE GC J # 16**QUAD/UNIT: **A** SEC: **6** TWP: **30N** RNG: **9W** PM: **NM** CNTY: **SJ** ST: **NM**1/4 - 1/4 FOOTAGE: **1,010'N / 990'E** NE/NE LEASE TYPE: **FEDERAL / STATE / FEE / INDIAN**LEASE #: **SF078316** PROD. FORMATION: **MV** CONTRACTOR: **ELKHORN MBF - B. SCHUMAN**DATE STARTED: **03/10/14**

DATE FINISHED:

ENVIRONMENTAL SPECIALIST(S):

JCB**REFERENCE POINT:**WELL HEAD (W.H.) GPS COORD.: **36.84503 X 107.81571** GL ELEV.: **6,374'**1) **95 BGT (SW/SB) - A**GPS COORD.: **36.845274 X 107.815455** DISTANCE/BEARING FROM W.H.: **102', N43E**2) **21 BGT (SW/SB) - B**GPS COORD.: **36.844942 X 107.815430** DISTANCE/BEARING FROM W.H.: **82', S59E**

3)

GPS COORD.: DISTANCE/BEARING FROM W.H.:

4)

GPS COORD.: DISTANCE/BEARING FROM W.H.:

SAMPLING DATA:CHAIN OF CUSTODY RECORD(S) # OR LAB USED: **HALL**OVM
READING
(ppm)

1) SAMPLE ID: 95 BGT 5-pt. @ 3'	SAMPLE DATE: 03/10/14	SAMPLE TIME: 1254	LAB ANALYSIS: 418.1/8015B/8021B/300.0(CI)	0.0
2) SAMPLE ID: 21 BGT 5-pt. @ 6'	SAMPLE DATE: 03/10/14	SAMPLE TIME: 1304	LAB ANALYSIS: 418.1/8015B/8021B/300.0(CI)	1,780
3) SAMPLE ID: _____	SAMPLE DATE: _____	SAMPLE TIME: _____	LAB ANALYSIS: _____	_____
4) SAMPLE ID: _____	SAMPLE DATE: _____	SAMPLE TIME: _____	LAB ANALYSIS: _____	_____

SOIL DESCRIPTION:SOIL TYPE: **SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER**SOIL COLOR: **DARK YELLOWISH ORANGE**

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

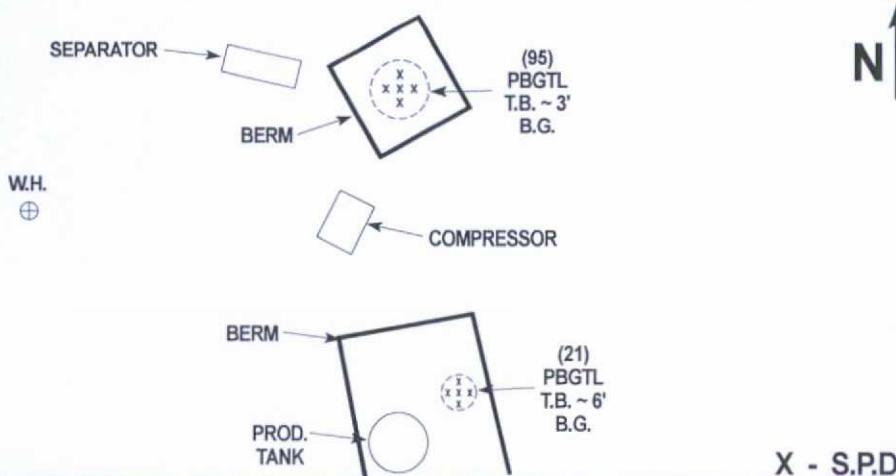
HC ODOR DETECTED: **YES** NO EXPLANATION - **AT 21 BGT**

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED

ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION -

SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. **5**DISCOLORATION/STAINING OBSERVED: **YES** NO EXPLANATION - **BLACK BENEATH 21 BGT****SITE OBSERVATIONS:** LOST INTEGRITY OF EQUIPMENT: YES / NO EXPLANATION -APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: **YES** NO EXPLANATION: **AT 21 BGT**EQUIPMENT SET OVER RECLAIMED AREA: **YES** NO EXPLANATION - **AT 95 BGT ONLY**OTHER: **95 BGT - 15 FT. DIAMETER WITH I-BEAMS WELDED TO ITS BOTTOM**

SOIL IMPACT DIMENSION ESTIMATION: **NA ft. X NA ft. X NA ft.** EXCAVATION ESTIMATION (Cubic Yards): **NA**
 DEPTH TO GROUNDWATER: **>100'** NEAREST WATER SOURCE: **>1,000'** NEAREST SURFACE WATER: **<1,000'** NMOCD TPH CLOSURE STD: **1,000 ppm**

SITE SKETCHBG Located: off **on** site PLOT PLAN circle: attachedOVM CALIB. READ. = **100.1** ppm RF = 1.00OVM CALIB. GAS = **100** ppmTIME: **11:05** am/pm DATE: **03/10/14****MISCELL. NOTES**WO: **N15419185**

PO #:

PK: **ZEVH01BGT2**PJ #: **Z2-006Q0**Permit date(s): **06/02/10**OCD Appr. date(s): **02/24/14**Tank ID OVM = Organic Vapor Meter
ppm = parts per millionA BGT Sidewalls Visible: Y / **N**B BGT Sidewalls Visible: Y / **N**

C BGT Sidewalls Visible: Y / N

Magnetic declination: **10° E**

NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.

NOTES: _____

ONSITE: **03/10/14**

Analytical Report
Lab Order 1403483
Date Reported: 3/19/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering	Client Sample ID: 95 BGT 5-pt @ 3'					
Project: Florence J 16	Collection Date: 3/10/2014 12:54:00 PM					
Lab ID: 1403483-001	Matrix: SOIL				Received Date: 3/12/2014 10:00:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANGE ORGANICS						
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/14/2014 7:16:27 PM	12165
Sur: DNOP	111	66-131	%REC	1	3/14/2014 7:16:27 PM	12165
EPA METHOD 8015D: GASOLINE RANGE						
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/17/2014 2:21:44 PM	12163
Sur: BFB	85.0	74.5-129	%REC	1	3/17/2014 2:21:44 PM	12163
EPA METHOD 8021B: VOLATILES						
Benzene	ND	0.048	mg/Kg	1	3/17/2014 2:21:44 PM	12163
Toluene	ND	0.048	mg/Kg	1	3/17/2014 2:21:44 PM	12163
Ethylbenzene	ND	0.048	mg/Kg	1	3/17/2014 2:21:44 PM	12163
Xylenes, Total	ND	0.096	mg/Kg	1	3/17/2014 2:21:44 PM	12163
Sur: 4-Bromofluorobenzene	97.5	80-120	%REC	1	3/17/2014 2:21:44 PM	12163
EPA METHOD 300.0: ANIONS						
Chloride	ND	30	mg/Kg	20	3/17/2014 12:44:31 PM	12201
EPA METHOD 418.1: TPH						
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	3/17/2014	12172

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
 Lab Order 1403483
 Date Reported: 3/19/2014

CLIENT: Blagg Engineering

Client Sample ID: 21 BGT 5-pt @ 6'

Project: Florance J 16

Collection Date: 3/10/2014 1:04:00 PM

Lab ID: 1403483-002

Matrix: SOIL

Received Date: 3/12/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	2200	100		mg/Kg	10	3/17/2014 6:48:12 PM	12165
Surr: DNOP	0	66-131	S	%REC	10	3/17/2014 6:48:12 PM	12165
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	3100	250		mg/Kg	50	3/17/2014 2:50:25 PM	12163
Surr: BFB	405	74.5-129	S	%REC	50	3/17/2014 2:50:25 PM	12163
EPA METHOD 8021B: VOLATILES							
Benzene	ND	1.2		mg/Kg	50	3/17/2014 2:50:25 PM	12163
Toluene	ND	2.5		mg/Kg	50	3/17/2014 2:50:25 PM	12163
Ethylbenzene	ND	2.5		mg/Kg	50	3/17/2014 2:50:25 PM	12163
Xylenes, Total	150	4.9		mg/Kg	50	3/17/2014 2:50:25 PM	12163
Surr: 4-Bromofluorobenzene	117	80-120		%REC	50	3/17/2014 2:50:25 PM	12163
EPA METHOD 300.0: ANIONS							
Chloride	ND	30		mg/Kg	20	3/17/2014 1:21:45 PM	12201
EPA METHOD 418.1: TPH							
Petroleum Hydrocarbons, TR	3000	200		mg/Kg	10	3/17/2014	12172

TPH (8015B) - 5,300 mg/Kg or ppm
 TPH (418.1) - 3,000 mg/Kg or ppm

Benzene - ND
 Total BTEX - 150 mg/Kg or ppm

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 RSDDlimit
- 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.
 RL Reporting Detection Limit

Page 2 of 7

Client:	Blagg Engineering, Inc.
BP America	
Mailing Address:	P.O. Box 87
	Bloomfield, NM 87413
Phone #:	(505)320-1183
email or Fax#:	
QA/QC Package:	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)
<input type="checkbox"/> Other _____	
<input type="checkbox"/> EDD (Type) _____	

<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush
Project Name:	
Florance J 16	
Project #:	
Project Manager:	
Jeff Blagg	
Sampler: Jeff Blagg	
On Ice:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Temperature: 1.2	



MALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403483

19-Mar-14

Client: Blagg Engineering

Project: Florence J 16

Sample ID	MB-12201	SampType:	MBLK	TestCode: EPA Method 300.0: Anions							
Client ID:	PBS	Batch ID:	12201	RunNo: 17390							
Prep Date:	3/17/2014	Analysis Date:	3/17/2014	SeqNo: 500913 Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								

Sample ID	LCS-12201	SampType:	LCS	TestCode: EPA Method 300.0: Anions							
Client ID:	LCSS	Batch ID:	12201	RunNo: 17390							
Prep Date:	3/17/2014	Analysis Date:	3/17/2014	SeqNo: 500914 Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.2	90	110			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403483

19-Mar-14

Client: Blagg Engineering
Project: Florence J 16

Sample ID	MB-12172	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH
Client ID:	PBS	Batch ID:	12172	RunNo:	17320
Prep Date:	3/13/2014	Analysis Date:	3/17/2014	SeqNo:	498786 Units: mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	ND	20			

Sample ID	LCS-12172	SampType:	LCS	TestCode:	EPA Method 418.1: TPH
Client ID:	LCSS	Batch ID:	12172	RunNo:	17320
Prep Date:	3/13/2014	Analysis Date:	3/17/2014	SeqNo:	498795 Units: mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	104 80 120

Sample ID	LCSD-12172	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH
Client ID:	LCSS02	Batch ID:	12172	RunNo:	17320
Prep Date:	3/13/2014	Analysis Date:	3/17/2014	SeqNo:	498802 Units: mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	99.6 80 120 4.19 20

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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403483
19-Mar-14

Client: Blagg Engineering
Project: Florence J 16

Sample ID	MB-12179	SampType:	MBLK	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	PBS	Batch ID:	12179	RunNo: 17323							
Prep Date:	3/14/2014	Analysis Date:	3/14/2014	SeqNo: 499010 Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	10		10.00		101	66	131				
Sample ID	LCS-12179	SampType:	LCS	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	LCSS	Batch ID:	12179	RunNo: 17323							
Prep Date:	3/14/2014	Analysis Date:	3/14/2014	SeqNo: 499012 Units: %REC							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.9		5.000		98.5	66	131				
Sample ID	MB-12165	SampType:	MBLK	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	PBS	Batch ID:	12165	RunNo: 17309							
Prep Date:	3/13/2014	Analysis Date:	3/14/2014	SeqNo: 499648 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	10		10.00		101	66	131				
Sample ID	LCS-12165	SampType:	LCS	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	LCSS	Batch ID:	12165	RunNo: 17357							
Prep Date:	3/13/2014	Analysis Date:	3/17/2014	SeqNo: 499909 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	55	10	50.00	0	109	60.8	145				
Surr: DNOP	5.4		5.000		107	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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403483

19-Mar-14

Client: Blagg Engineering
Project: Florance J 16

Sample ID	MB-12163	SampType:	MBLK	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	PBS	Batch ID:	12163	RunNo: 17371							
Prep Date:	3/13/2014	Analysis Date:	3/17/2014	SeqNo: 500261 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Sur: BFB	870		1000		87.2	74.5	129				

Sample ID	LCS-12163	SampType:	LCS	TestCode: EPA Method 8015D: Gasoline Range							
Client ID:	LCSS	Batch ID:	12163	RunNo: 17371							
Prep Date:	3/13/2014	Analysis Date:	3/17/2014	SeqNo: 500262 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	71.7	134				
Sur: BFB	930		1000		92.7	74.5	129				

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403483
19-Mar-14

Client: Blagg Engineering
Project: Florence J 16

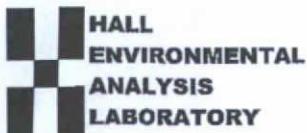
Sample ID	MB-12163	SampType:	MBLK	TestCode: EPA Method 8021B: Volatiles							
Client ID:	PBS	Batch ID:	12163	RunNo: 17371							
Prep Date:	3/13/2014	Analysis Date:	3/17/2014	SeqNo: 500288 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.050									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0	1.000			102	80	120				

Sample ID	LCS-12163	SampType:	LCS	TestCode: EPA Method 8021B: Volatiles							
Client ID:	LCSS	Batch ID:	12163	RunNo: 17371							
Prep Date:	3/13/2014	Analysis Date:	3/17/2014	SeqNo: 500289 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.97	0.050	1.000	0	97.4	80	120				
Toluene	0.96	0.050	1.000	0	96.5	80	120				
Ethylbenzene	0.97	0.050	1.000	0	97.5	80	120				
Xylenes, Total	3.0	0.10	3.000	0	98.5	80	120				
Surr: 4-Bromofluorobenzene	1.1	1.000			107	80	120				

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.
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG

Work Order Number: 1403483

RcptNo: 1

Received by/date: 03/12/14

Logged By: Lindsay Mangin 3/12/2014 10:00:00 AM

Completed By: Lindsay Mangin 3/12/2014 1:56:56 PM

Reviewed By: A - 03/13/14

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes No NA
5. Were all samples received at a temperature of >0°C to 6.0°C Yes No NA
6. Sample(s) in proper container(s)? Yes No
7. Sufficient sample volume for indicated test(s)? Yes No
8. Are samples (except VOA and ONG) properly preserved? Yes No
9. Was preservative added to bottles? Yes No NA
10. VOA vials have zero headspace? Yes No No VOA Vials
11. Were any sample containers received broken? Yes No
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
13. Are matrices correctly identified on Chain of Custody? Yes No
14. Is it clear what analyses were requested? Yes No
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No
- # of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	Date:
By Whom:	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	
Client Instructions:	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			