

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.

OIL CONS. DIV DIST. 3

Release Notification and Corrective Action

OCT 19 2016

OPERATOR Initial Report Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Northeast Blanco Unit Sims Mesa SWD 001	Facility Type: Natural gas well/Disposal Well
Surface Owner: State	Mineral Owner: State
API No. 3003924236	

LOCATION OF RELEASE

Unit Letter E	Section 10	Township 30N	Range 07W	Feet from the 1,450	North/South Line North	Feet from the 790	East/West Line West	County: Rio Arriba
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Latitude 36.830817° Longitude -107.564767°

NATURE OF RELEASE

Type of Release: produced water/oil and condensate	Volume of Release: Unknown	Volume Recovered: none
Source of Release: 60 bbl BGT	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: July 11, 2016; 2:00 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* During the closure of a BGT for replacement to a modern design, impacts were found beneath the tank. Laboratory results indicated the impacts were above the BGT closure standard and the spill and release guidelines for closure. Remediation through excavation was performed to meet the spill and release guidelines.

Describe Area Affected and Cleanup Action Taken.* Soil was excavated from the BGT location. Final excavation measured approximately 18'x18'x11' in depth. A total of 130 cubic yards of soil was transported offsite for landfarm treatment. Final report and laboratory data are attached.

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>11/3/2016</u>	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval: <u>NOS 1627953913</u>	Attached <input type="checkbox"/>
Date: October 6, 2016	Phone: 505-326-9497	

* Attach Additional Sheets If Necessary

BP America
NEBU Simms Mesa SWD 1
(E) Sec 10 – T30N – R7W
San Juan County, New Mexico
API: 30-039-24236

Summary Record of Impact Remediation

July 11, 2016 Soils impacted with hydrocarbons were encountered during closure of a 60 barrel below grade tank (BGT) (see attached Field Report). Impacts appeared to be resulting from possible periodic overflow from the BGT & potentially from lost integrity. No other source(s) was evident. The soil lithology from ground surface to approximately 9' below surface grade (bsg) was a silty sand grading to a silty clay. Dense sandstone began at about 9' bsg.

The site closure standard was determined at 5,000 ppm TPH based on:

- Horizontal distance to blue line on USGS Topo > 1,000 feet (0 points) - attached
- Nearest water well based on search of State Engineer's data base > 1,000 feet (0 points) – BGT permit
- Depth to groundwater based BGT permit data search >100 feet (0 points) – BGT permit

The initial response on discovery of impacts was to delineate impacts with the backhoe used for the BGT removal and sampling. A limited excavation of approximately 14' diameter x 10' deep was advanced and samples were collected from the sidewalls and base for laboratory testing. Equipment limitation and dense sandstone prevented sampling deeper than 10 foot depth.

July 12, 2014 Receive rush lab results from BGT sample event:

Sample ID	Date & Time	Field OVM (ppm)	TPH Method 418.1 (mg/Kg)	TPH Method 8015B (GRO) (mg/Kg)	TPH Method 8015B (DRO) (mg/Kg)	TPH Method 8015B (MRO) (mg/Kg)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	Chloride (mg/Kg)
5-pt Composite @ Excavation Base @ 10'	7/11/2016 @ 1410 pm	45.0	20,000	32	4,000	10,000	<0.076	3.14	150
4-pt Composite of Sidewalls @ 8'- 9' depth	7/11/2016 @ 1425 pm	60.1	NA	9.9	3,100	9,200	<0.033	0.66	200
4-pt Composite of Sidewalls @ 7' depth	7/11/2016 @ 1433 pm	45.3	NA	ND	1,000	4,000	<0.019	ND	160
Closure Standard		100	5,000	GRO+DRO+MRO = 5,000			10	50	NA

Note: OVM = Organic Vapor Meter; ppm = parts per million; mg/Kg = milligram per kilogram; GRO = Gasoline Range Organics; DRO = Diesel Range Organics; MRO = Motor Oil Range Organics; BTEX = benzene, toluene, ethylbenzene, total xylenes; Closure Standards based on NMOCD Spill & Release Guidelines.

July 22, 2016 Begin site remediation via excavation into sandstone with trackhoe. Remedial excavation size approximately 18' x 18' x 11' deep. Sub-grade pipelines and above ground surface facilities prevent expanding excavation any larger in any direction. Conduct closure sampling with NMOCD representative on site.

July 25, 2016 Receive rush lab results from excavation sample event:

Sample ID	Date/Time	Field OVM (ppm)	TPH Method 8015B (GRO) (mg/Kg)	TPH Method 8015B (DRO) (mg/Kg)	TPH Method 8015B (MRO) (mg/Kg)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	Chloride (mg/Kg)
Base 5-point @ 11'	7/22/2016 @ 1337 pm	0.6	ND	ND	ND	<0.011	ND	180
North Wall 5-point (5'-10')	7/22/2016 @ 1341 pm	29.2	ND	1,500	4,100	<0.097	ND	130
South Wall 5-point (5'-10')	7/22/2016 @ 1345 pm	2.0	ND	ND	ND	<0.019	ND	100
East Wall 5-point (5'-10')	7/22/2016 @ 1347 pm	1.2	ND	ND	ND	<0.020	ND	100
West Wall 5-point (5'-10')	7/22/2016 @ 1350 pm	0.5	ND	ND	ND	<0.017	ND	140
Closure Standard		100	GRO+DRO+MRO = 5,000			10	50	NA

Note: OVM = Organic Vapor Meter; ppm = parts per million; mg/Kg = milligram per kilogram; GRO = Gasoline Range Organics; DRO = Diesel Range Organics; MRO = Motor Oil Range Organics; BTEX = benzene, toluene, ethylbenzene, total xylenes; Closure Standards based on NMOCD Spill & Release Guidelines.

July 26, 2016 Receive regulatory approval to close site based on laboratory results and no perceived risk to groundwater, the environment or human health.

July 27, 2016 Excavation crew completes backfilling operation. Total volume removed and transported to IEI landfarm approximately 130 cubic yards of soil.

CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: 3003924236 TANK ID (if applicable): A
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FIELD REPORT:

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

PAGE #: **1** of **1**

SITE INFORMATION: SITE NAME: **NEBU SIMS MESA SWD # 1**

QUAD/UNIT: **E** SEC: **10** TWP: **30N** RNG: **7W** PM: **NM** CNTY: **RA** ST: **NM**

1/4 -1/4/FOOTAGE: **1,450'N / 790'W** SW/NW LEASE TYPE: FEDERAL / STATE / FEE / INDIAN
STRIKE

LEASE #: **-** PROD. FORMATION: **-** CONTRACTOR: **BP - J. LAUTEY**

DATE STARTED: **07/11/16**

DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST(S): **NJV**

REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: **36.830393 X 107.564706** GL ELEV.: **6,313'**

1) 60 BGT (SW/SB) GPS COORD.: 36.830817 X 107.564767 DISTANCE/BEARING FROM WH.: 148.5', N2W
2) _____ GPS COORD.: _____ DISTANCE/BEARING FROM WH.: _____
3) _____ GPS COORD.: _____ DISTANCE/BEARING FROM WH.: _____
4) _____ GPS COORD.: _____ DISTANCE/BEARING FROM WH.: _____

SAMPLING DATA:		CHAIN OF CUSTODY RECORD(S) # OR LAB USED:		HALL		OVM READING (ppm)
1) SAMPLE ID: 5PC - EB @ 10'	SAMPLE DATE: 07/11/16	SAMPLE TIME: 1410	LAB ANALYSIS: 418.1/8015B/8021B/300.0 (CI)			45.0
2) SAMPLE ID: 4PC - SW @ 8' - 9'	SAMPLE DATE: 07/11/16	SAMPLE TIME: 1425	LAB ANALYSIS: 8015B/8021B/300.0 (CI)			60.1
3) SAMPLE ID: 4PC - SW @ 7'	SAMPLE DATE: 07/11/16	SAMPLE TIME: 1433	LAB ANALYSIS: 8015B/8021B/300.0 (CI)			45.3
4) SAMPLE ID: _____	SAMPLE DATE: _____	SAMPLE TIME: _____	LAB ANALYSIS: _____			

SOIL DESCRIPTION: SOIL TYPE: SAND SILTY SAND SILT SILTY CLAY CLAY GRAVEL OTHER **BEDROCK (SANDSTONE)**

SOIL COLOR: **MOSTLY 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 - **DISCOLORED SOILS ONLY.**

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

SAMPLE TYPE: GRAB COMPOSITE # OF PTS. **4 & 5**

ANY AREAS DISPLAYING WETNESS: YES NO EXPLANATION - **BOTTOM OF EXCAVATION.**

DISCOLORATION/STAINING OBSERVED: YES NO EXPLANATION - **IN BEDROCK STARTING @ 8 FT. BELOW GRADE (OLIVE GRAY TO BLACK).**

SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION - **FLUID FLOWING FROM BGT BOTTOM CREASE.**

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES NO EXPLANATION: **FLUID IN EXCAVATION & DISCOLORED SOILS.**

EQUIPMENT SET OVER RECLAIMED AREA: YES NO EXPLANATION - **BETTER DESIGNED BGT TO BE INSTALLED.**

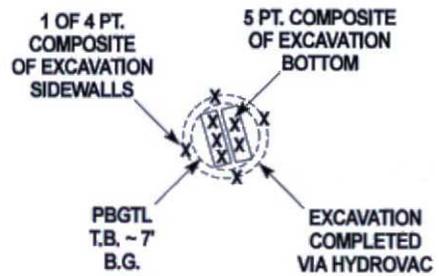
OTHER: **NORTH & EAST SIDEWALLS DISCOLORED FROM 7 - 10 FT. BELOW GRADE. SANDSTONE @ 9 - 10 FT. BELOW GRADE, MOSTLY DARK GRAY TO BLACK, VERY HARD, COMPETENT. NMOCD REP. PRESENT DURING SAMPLE COLLECTION.**

SOIL IMPACT DIMENSION ESTIMATION: **?** ft. X **?** ft. X **?** ft. EXCAVATION ESTIMATION (Cubic Yards): **?**

DEPTH TO GROUNDWATER: **>100'** NEAREST WATER SOURCE: **>1,000'** NEAREST SURFACE WATER: **>1,000'** NMOCD TPH CLOSURE STD: **5,000** ppm

SITE SKETCH BGT Located: off / on site PLOT PLAN circle: attached **FIGURE 3**

OVM CALIB. READ. = **54.8** ppm RF=0.52
OVM CALIB. GAS = **100** ppm
TIME: **2:39** am/pm DATE: **07/11/16**



MISCELL. NOTES

WO: _____

REF #: _____

VID: _____

PJ #: _____

Permit date(s): **10/02/08**

OCD Appr. date(s): **03/20/12**

Tank ID	OVM = Organic Vapor Meter ppm = parts per million
A	BGT Sidewalls Visible: Y / <input checked="" type="checkbox"/> N
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N

Magnetic declination: **10° E**

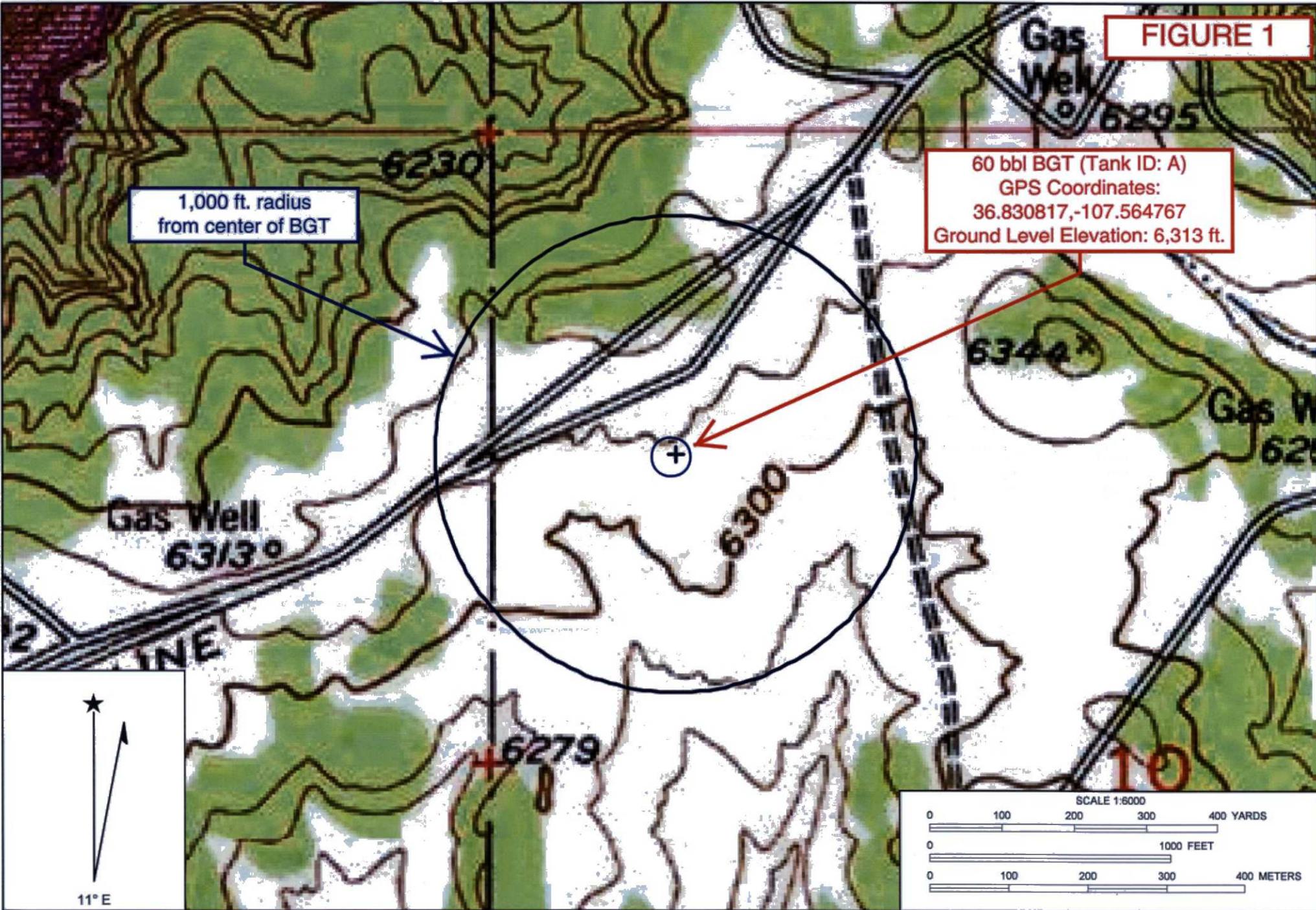
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA = NOT APPLICABLE OR NOT AVAILABLE; SW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

NOTES: **GOOGLE EARTH IMAGERY DATE: 3/16/2016.** ONSITE: **07/11/16**

FIGURE 1

1,000 ft. radius
from center of BGT

60 bbl BGT (Tank ID: A)
GPS Coordinates:
36.830817,-107.564767
Ground Level Elevation: 6,313 ft.



BP - NEBU Sims Mesa SWD 001

API #: 3003924236
(E) Section 10, Township 30.0N, Range 7W, P.M. NM 23
Well head GPS coord.: 36.830393,-107.564706

Proximity to Watercourses

BP - NEBU Sims Mesa SWD 001

(E) Sec. 10, T30N, R7W
API #: 3003924235

Imagery date: 3/16/2016

FIGURE 2

60 BBL BGT

1,000 FT. RADIUS
FROM BGT CENTER

Google earth

© SPOT IMAGE
© 2016 Google

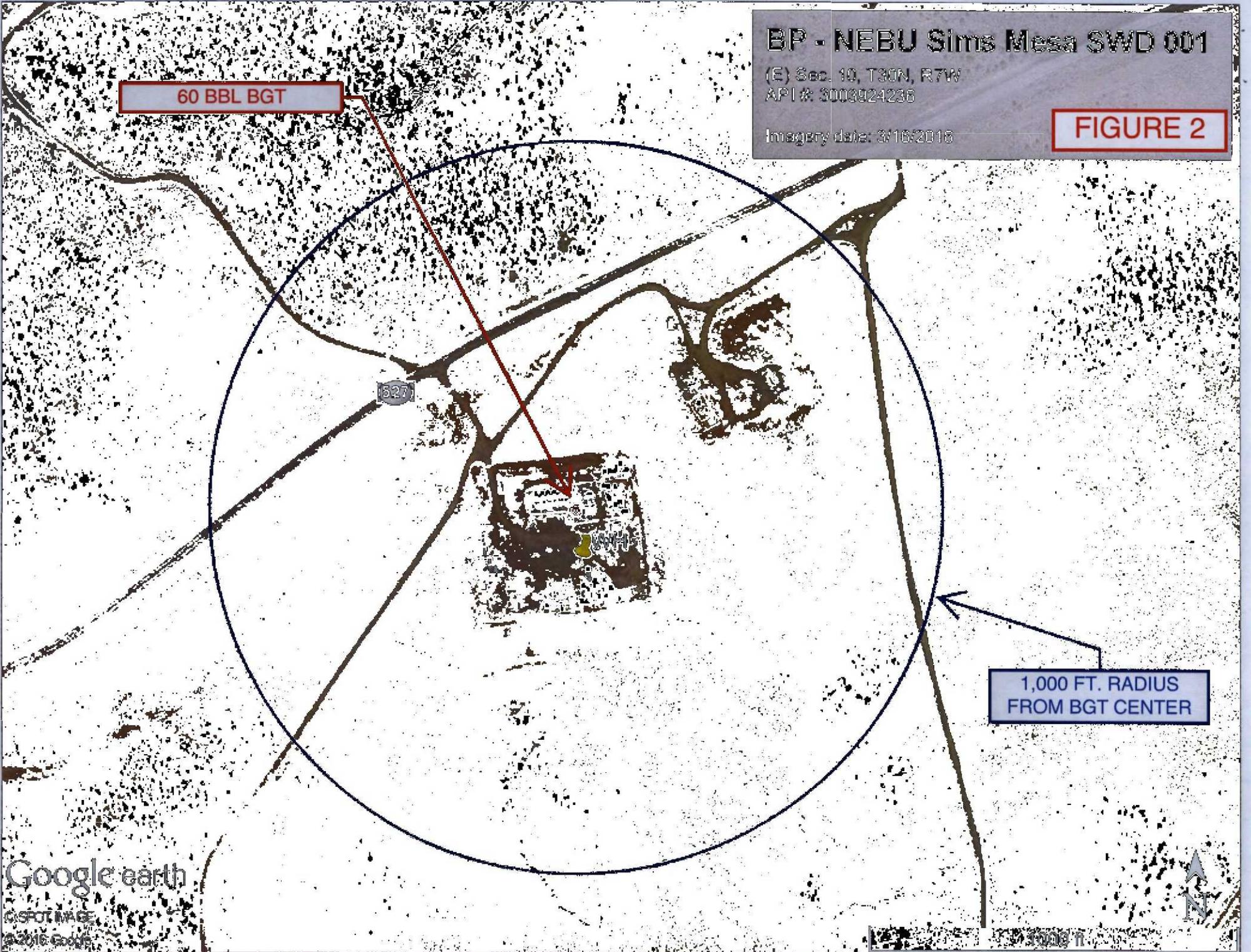


FIGURE 3

BGT POSITION

BP - NEBU Sims Mesa SWD 001

(E) Sec. 10, T30N, R7W
API #: 3003924236

Imagery date: 3/13/2016

Google earth

© 2016 IMAGE
Satellite Imagery

WH

N

100 ft



NEBU SIMMS MESA SWD 1

DOT Remedial Excavation
July 22, 2016

FIGURE 4

July 22, 2016
North Wall 5-pt (5'-10')
OVM = 29.2 ppm
GRO = ND
DRO = 1,500 mg/Kg
MRO = 4,100 mg/Kg

July 22, 2016
Remedial Excavation
18'x18'x11' Deep

July 22, 2016
West Wall 5-pt (5'-10')
OVM = 0.5 ppm
GRO = ND
DRO = ND
MRO = ND

July 22, 2016
East Wall 5-pt (5'-10')
OVM = 1.2 ppm
GRO = ND
DRO = ND
MRO = ND

July 22, 2016
Base 5-pt @ 11'
OVM = 0.6 ppm
GRO = ND
DRO = ND
MRO = ND

July 22, 2016
South Wall 5-pt (5'-10')
OVM = 2.0 ppm
GRO = ND
DRO = ND
MRO = ND

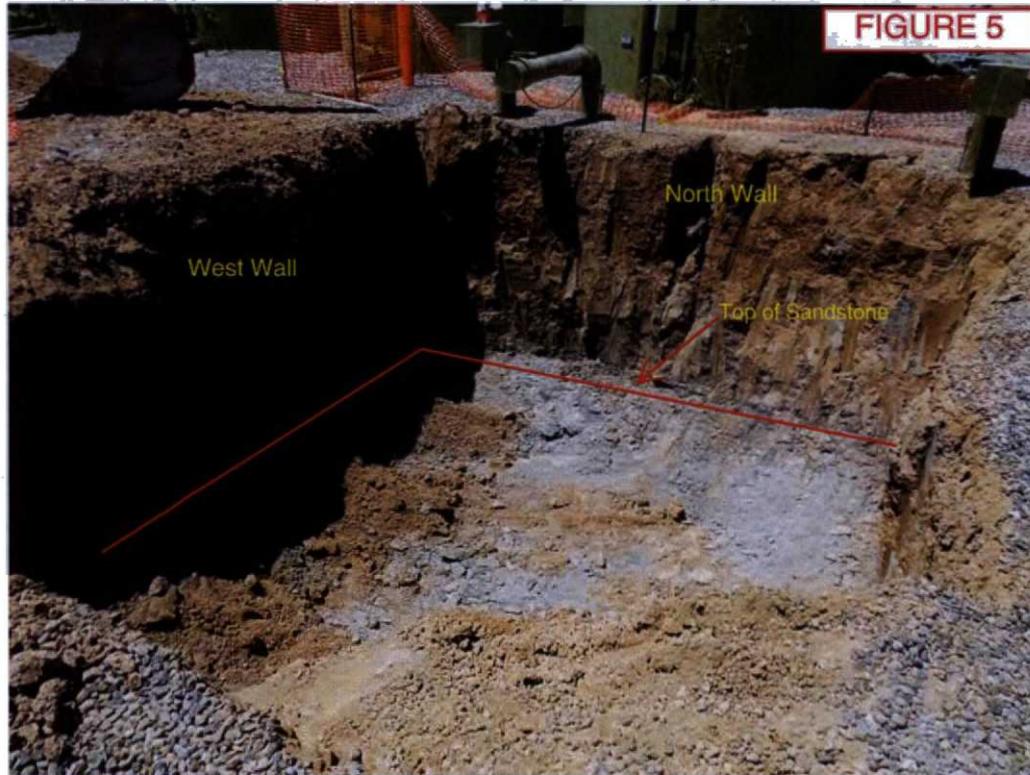


FIGURE 5

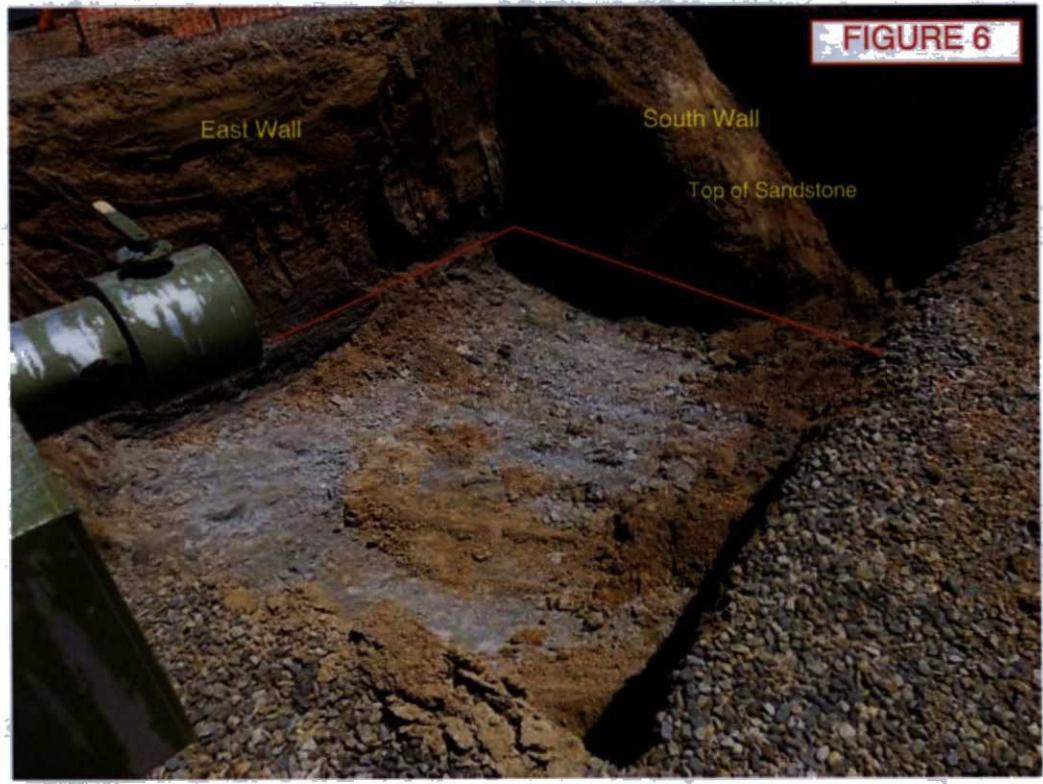


FIGURE 6

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1607C01

Date Reported: 7/27/2016

CLIENT: Blagg Engineering

Client Sample ID: North Wall 5-pt (5'-10')

Project: NEBU Simms SWD #1

Collection Date: 7/22/2016 1:41:00 PM

Lab ID: 1607C01-002

Matrix: MEOH (SOIL)

Received Date: 7/23/2016 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	130	30		mg/Kg	20	7/25/2016 12:27:06 PM	26584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1500	100		mg/Kg	10	7/25/2016 4:59:59 PM	26574
Motor Oil Range Organics (MRO)	4100	500		mg/Kg	10	7/25/2016 4:59:59 PM	26574
Surr: DNOP	0	70-130	S	%Rec	10	7/25/2016 4:59:59 PM	26574
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	7/25/2016 10:55:38 AM	R35949
Surr: BFB	102	80-120		%Rec	5	7/25/2016 10:55:38 AM	R35949
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.097		mg/Kg	5	7/25/2016 10:55:38 AM	B35949
Toluene	ND	0.19		mg/Kg	5	7/25/2016 10:55:38 AM	B35949
Ethylbenzene	ND	0.19		mg/Kg	5	7/25/2016 10:55:38 AM	B35949
Xylenes, Total	ND	0.39		mg/Kg	5	7/25/2016 10:55:38 AM	B35949
Surr: 4-Bromofluorobenzene	98.9	80-120		%Rec	5	7/25/2016 10:55:38 AM	B35949

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1607C01

Date Reported: 7/27/2016

CLIENT: Blagg Engineering

Client Sample ID: South Wall 5-pt (5'-10')

Project: NEBU Simms SWD #1

Collection Date: 7/22/2016 1:45:00 PM

Lab ID: 1607C01-003

Matrix: MEOH (SOIL)

Received Date: 7/23/2016 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	100	30		mg/Kg	20	7/25/2016 12:39:31 PM	26584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2016 4:26:43 PM	26574
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	7/25/2016 4:26:43 PM	26574
Surr: DNOP	94.2	70-130		%Rec	1	7/25/2016 4:26:43 PM	26574
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/25/2016 10:53:08 PM	G35950
Surr: BFB	80.0	80-120		%Rec	1	7/25/2016 10:53:08 PM	G35950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	7/25/2016 11:02:46 AM	B35950
Toluene	ND	0.038		mg/Kg	1	7/25/2016 11:02:46 AM	B35950
Ethylbenzene	ND	0.038		mg/Kg	1	7/25/2016 11:02:46 AM	B35950
Xylenes, Total	ND	0.076		mg/Kg	1	7/25/2016 11:02:46 AM	B35950
Surr: 4-Bromofluorobenzene	97.8	80-120		%Rec	1	7/25/2016 11:02:46 AM	B35950

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
D	Sample Diluted Due to Matrix	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	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** East Wall 5-pt (5'-10')
Project: NEBU Simms SWD #1 **Collection Date:** 7/22/2016 1:47:00 PM
Lab ID: 1607C01-004 **Matrix:** MEOH (SOIL) **Received Date:** 7/23/2016 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	100	30		mg/Kg	20	7/25/2016 12:51:55 PM	26584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2016 4:48:42 PM	26574
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	7/25/2016 4:48:42 PM	26574
Surr: DNOP	89.7	70-130		%Rec	1	7/25/2016 4:48:42 PM	26574
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	7/25/2016 11:27:08 AM	G35950
Surr: BFB	87.2	80-120		%Rec	1	7/25/2016 11:27:08 AM	G35950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	7/25/2016 11:27:08 AM	B35950
Toluene	ND	0.041		mg/Kg	1	7/25/2016 11:27:08 AM	B35950
Ethylbenzene	ND	0.041		mg/Kg	1	7/25/2016 11:27:08 AM	B35950
Xylenes, Total	ND	0.082		mg/Kg	1	7/25/2016 11:27:08 AM	B35950
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	1	7/25/2016 11:27:08 AM	B35950

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** West Wall 5-pt (5'-10')
Project: NEBU Simms SWD #1 **Collection Date:** 7/22/2016 1:50:00 PM
Lab ID: 1607C01-005 **Matrix:** MEOH (SOIL) **Received Date:** 7/23/2016 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	140	30		mg/Kg	20	7/25/2016 1:04:20 PM	26584
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/25/2016 4:31:51 PM	26574
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/25/2016 4:31:51 PM	26574
Surr: DNOP	95.4	70-130		%Rec	1	7/25/2016 4:31:51 PM	26574
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	7/25/2016 11:51:35 AM	G35950
Surr: BFB	81.2	80-120		%Rec	1	7/25/2016 11:51:35 AM	G35950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	7/25/2016 11:51:35 AM	B35950
Toluene	ND	0.033		mg/Kg	1	7/25/2016 11:51:35 AM	B35950
Ethylbenzene	ND	0.033		mg/Kg	1	7/25/2016 11:51:35 AM	B35950
Xylenes, Total	ND	0.067		mg/Kg	1	7/25/2016 11:51:35 AM	B35950
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/25/2016 11:51:35 AM	B35950

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Chain-of-Custody Record

Client: **BP AMERICA**
BLAGG ENGINEERING INC
 Billing Address:
 Phone #: **(505) 320-1103**
 Email or Fax#:
 VQC Package:
 Standard Level 4 (Full Validation)
 Accreditation:
 NELAP Other _____
 EDD (Type):

Turn-Around Time: **ASAP SAME DAY**
 Standard Rush
 Project Name:
NEBU SIMMS SWD # 1
 Project #:
 Project Manager:
J. Blagg
 Sampler: **J. Blagg**
 On Ice: Yes No
 Sample Temperature: **1.8**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE THES (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE	Air Bubbles (Y or N)
2/20/16	1337	SOIL	BASE 5-pt @ 11'	4 oz x 1	COOL	1607C01 -001	X	X										X	
"	1341	"	NORTH wall 5-pt (5'-10')	"	"	-002	X	X										X	
"	1345	"	South wall 5-pt (5'-10')	"	"	-003	X	X										X	
"	1347	"	EAST wall 5-pt (5'-10')	"	"	-004	X	X										X	
"	1350	"	West wall 5-pt (5'-10')	"	"	-005	X	X										X	

Relinquished by: **J. Blagg** Date: **2/20/16** Time: **1705**
 Received by: **Christine White** Date: **2/22/16** Time: **1705**
 Remarks: **Bill BP CONTACT: STEVE MOSCAL VID: VDRINKWJA1**

Relinquished by: **Christine White** Date: **02/23/16** Time: **0830**
 Received by: **[Signature]**

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#: 1607C01

27-Jul-16

Client: Blagg Engineering
Project: NEBU Simms SWD #1

Sample ID	MB-26584	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	26584	RunNo:	35975					
Prep Date:	7/25/2016	Analysis Date:	7/25/2016	SeqNo:	1113849	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-26584	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	26584	RunNo:	35975					
Prep Date:	7/25/2016	Analysis Date:	7/25/2016	SeqNo:	1113850	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1607C01
 27-Jul-16

Client: Blagg Engineering
Project: NEBU Simms SWD #1

Sample ID LCS-26574	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 26574		RunNo: 35946							
Prep Date: 7/25/2016	Analysis Date: 7/25/2016		SeqNo: 1112939				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.8	62.6	124			
Surr: DNOP	4.8		5.000		96.4	70	130			

Sample ID MB-26574	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 26574		RunNo: 35946							
Prep Date: 7/25/2016	Analysis Date: 7/25/2016		SeqNo: 1112940				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.2	70	130			

Qualifiers:

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- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607C01

27-Jul-16

Client: Blagg Engineering
Project: NEBU Simms SWD #1

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G35950	RunNo: 35950								
Prep Date:	Analysis Date: 7/25/2016	SeqNo: 1114332							Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.8	80	120			
Surr: BFB	900		1000		90.1	80	120			

Sample ID: 5ML RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G35950	RunNo: 35950								
Prep Date:	Analysis Date: 7/25/2016	SeqNo: 1114333							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	830		1000		82.6	80	120			

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: R35949	RunNo: 35949								
Prep Date:	Analysis Date: 7/25/2016	SeqNo: 1114408							Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.6	80	120			
Surr: BFB	1100		1000		110	80	120			

Sample ID: 5ML RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: R35949	RunNo: 35949								
Prep Date:	Analysis Date: 7/25/2016	SeqNo: 1114409							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	1000		1000		102	80	120			

Qualifiers:

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- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607C01

27-Jul-16

Client: Blagg Engineering
Project: NEBU Simms SWD #1

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B35949	RunNo:	35949					
Prep Date:		Analysis Date:	7/25/2016	SeqNo:	1114429	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	75.3	123			
Toluene	0.99	0.050	1.000	0	99.1	80	124			
Ethylbenzene	1.0	0.050	1.000	0	101	82.8	121			
Xylenes, Total	3.0	0.10	3.000	0	101	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B35949	RunNo:	35949					
Prep Date:		Analysis Date:	7/25/2016	SeqNo:	1114438	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.2	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B35950	RunNo:	35950					
Prep Date:		Analysis Date:	7/25/2016	SeqNo:	1115104	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	75.3	123			
Toluene	1.0	0.050	1.000	0	103	80	124			
Ethylbenzene	0.95	0.050	1.000	0	94.7	82.8	121			
Xylenes, Total	2.8	0.10	3.000	0	92.2	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B35950	RunNo:	35950					
Prep Date:		Analysis Date:	7/25/2016	SeqNo:	1115106	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.9	80	120			

Qualifiers:

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

Sample Log-In Check List

Client Name **BLAGG**

Work Order Number: **1607C01**

Rep: No: **1**

Received by/date: [Signature] 7/23/16
 Logged By: **Lindsay Mangin** 7/23/2016 8:30:00 AM
 Completed By: **Lindsay Mangin** 7/23/2016 9:36:41 AM
 Reviewed By: AB 7/23/16

[Signature]
[Signature]

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 volumes 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: eMail Phone Fax 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	1.8	Good	Yes			

RE: NEBU Simms Mesa SWD BGT**From:** Smith, Cory, EMNRD, EMNRD <Cory.Smith@state.nm.us>**To:** Moskal, Steven <Steven.Moskal@bp.com>**Cc:** jeffcblagg <jeffcblagg@aol.com>; Eickleberry, Jay T <Jay.Eickleberry@bp.com>; celkins <celkins@gobrainstorm.net>; EMNRD <Vanessa.Fields@state.nm.us>**Date:** Tue, Jul 26, 2016 7:34 am

Steve,

OCD grants BP request for site closure. Please include a copy of these emails in your C-141 final.

OCD Approval for site closure does not relieve BP of liability should their operations have failed to adequately investigate and remediate threat to the ground water, surface water, human health or the environment.

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

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

Sent: Tuesday, July 26, 2016 7:11 AM

To: Smith, Cory, EMNRD

Cc: jeffcblagg@aol.com; Eickleberry, Jay T; celkins@gobrainstorm.net

Subject: NEBU Simms Mesa SWD BGT

Cory,

Attached are the laboratory results received yesterday evening for the samples collected on Friday from the ren NEBU Simms Mesa SWD BGT. TPH, including MRO, exceeds the site closure standard of 5,000 ppm on the n other samples were below laboratory detection limits for all constituents. Due to the nearby underground utilities excavation is very difficult. I do not believe MRO poses a high risk to groundwater or any surface water or other the site. I also believe the results demonstrate the BGT is the source and only a residual amount of contaminat wall. If another source was present, I believe we would have seen results above laboratory detection limits from observed free product in the immediate vicinity during the removal of the BGT "lid" during the initial hydro-excav no further action. Please let me know your thoughts.

Thank you,

Steve Moskal

BP Lower 48 – San Juan – Farmington

Field Environmental Coordinator

Office: (505) 326-9497

Cell: (505) 330-9179

