Location NFSS Date 10/31/13

Project / Client NFSS - BOP Field Investigation 2013

rain, ~65°

0845 [redacted] arrives onsite with GPS and remainder of rad instruments [redacted] performing initial rad instrument set up, Shawn Conway onsite

0900 spoke with [redacted] regarding plan to start sampling at fenceline once drillers arrive onsite

1330 prepare instrument for background gamma survey.

1400 [redacted] begin background gamma survey along grass and asphalt entrance driveway to facility

1530 [redacted] download data from background survey

1630 Depart site

[redacted]

Location NFSS Date 11/1/13

Project / Client NFSS - BOP Field Investigation 2013

cloudy, 55°, high winds

0800 [redacted] arrives at site [redacted] onsite

0815 safety meeting [redacted] calibrate instrument

0930 [redacted] begin background gamma survey

1100 complete background gamma survey along entrance road

1130 [redacted] enters data into system

1200 [redacted] spoke with [redacted] to confirm geophysical survey for Wednesday 11/6/13

1330 perform gamma survey along fence across MacArthur St.

1530 complete survey [redacted] to input data

1630 depart site

[redacted]

Location NFSS Date 11/4/13

Project / Client NFSS - BOP Field Investigation 2013

Cloudy, 40°

0730 [redacted] onsite

S. Conway onsite

Frost on ground, [redacted] and P[redacted] calibrate instruments

1000 head out to fence line to obtain data missing from Fridays walkover. Adjusted meter from 1' to 4" off ground per USACE request

1030 fence down and area cleared. Appears location 528 #3 would be located just the cleared area. Consult with [redacted] and per [redacted] location moved to the edge of property in cleared area, marked with paint

1100 [redacted] USACE attempting to locate soil boring location. Poor satellite reception, will try later this afternoon.

1220 Test America arrives at site with coolers and sample bottles. Delivered nine coolers and 16oz plastic sample bottles. Per conversation with [redacted], 16oz plastic is acceptable to use. Test America to deliver 4oz amber glass, 1 liter poly and Ziploc DI water to site tomorrow

1500 [redacted] complete gamma survey

Location NFSS Date 11/4/13

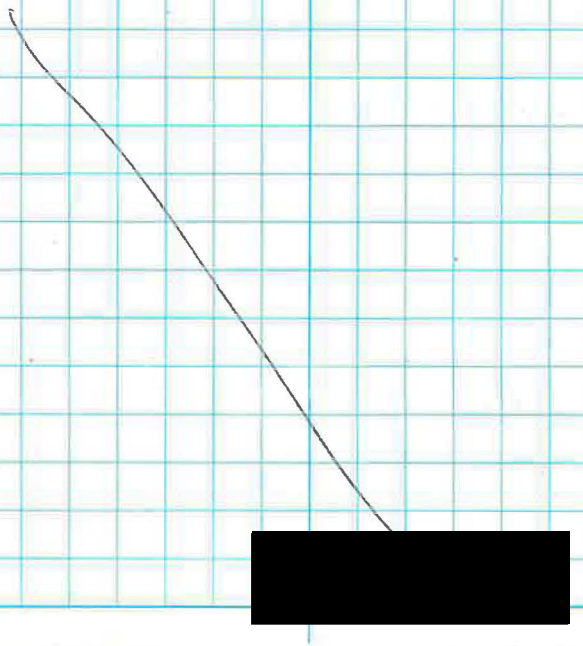
Project / Client NFSS - BOP Field Investigation

at fence area with meter 4" above ground

1540 Scan coolers from Test America

1600 [redacted] input data from walkover near fence line along MacArthur road. Found five locations with elevated gamma readings (19000 - 42190 cpm) flagged areas in field.

1700 depart site



Location NFSS Date 11/5/13

Project / Client NFSS - BOP Field Investigation 2013

41°, partly cloudy

0700 [redacted]
arrive onsite.
[redacted] arrive onsite - [redacted]
0730 [redacted] onsite
[redacted] holds safety meeting
0746 A. [redacted] perform source checks on rad equipment
0815 [redacted] and [redacted] head to MacArthur road to verify boring locations with GPS
0830 [redacted] arrive onsite
0900 [redacted] survey drillers equipment
0930 [redacted] began gamma survey of EU 11, MH06 area
1010 Test America onsite to deliver remainder of sample jars, DI water, three coolers. Missing 1-liter amber glass jars. [redacted] contact [redacted] regarding missing jars.
1200 Russo set up geoprobe at sample location.
Load up vehicles with supplies
[redacted] arrive onsite

Location NFSS Date 11/5/13

Project / Client NFSS - BOP Field Investigation 2013

1400 mobilize to location EU6 606-3
[redacted] onsite
Geoprobe MMS Power Probe 9505-VTR
1440 obtain surface sample 0.0-0.5' at location 606-3550.0-0.5-0001
[redacted] scan sample
1445 sample 0.5-2' 606-35B0.5-2.0-0002
1450 sample 2-3' 606-35B2.0-3.0-0003
take picture of geoprobe at EU6 location
1505 move to location 829-3
1510 sample 0.0-0.5' 829-3550.0-0.5-0004
1515 sample 0.5-2' 829-35B0.5-2.0-0005
1520 sample 2-3' 829-35B2.0-3.0-0006
1525 move to location 828-3
Sample 0.0-0.5' 828-3550.0-0.5-0007
1530 sample 0.5-2' 828-35B0.5-2.0-0008 (plus duplicate 828-35B0.5-2.0D-9001)
1535 Sample 2-3' 828-35B2.0-3.0-0009
1550 move to location 826-2
1555 sample 0.0-0.5' 828-2550.0-0.5-0010
1605 Sample 0.5-2' 828-25B0.5-2.0-0011
1610 Sample 2-3' 828-25B2.0-3.0-0012
(plus duplicate 828-25B2.0-3.0D-9002

Location NFSS Date 11/5/13

Project / Client NFSS - BOP Field Investigation 2013

1615 move to location 828-4

1620 sample 0.0-0.5' 828-4SS0.0-0.5-0013
Plus MS/MSD

828-4SS0.0-0.5MS-9003

828-4SS0.0-0.5MSD-9004

1625 sample 0.5-2.0 828-4SB0.5-2.0-0014

1630 sample 2.0-3.0 828-4SB2.0-3.0-0015

1640 collect rinsate sample from sampling spoon and trowel EB1-1105 13

1645 depart sample location.

1745 complete COC, paperwork, depart site

[redacted]

Location NFSS Date 11/6/13

Project / Client NFSS - BOP Field Investigation 2013

cloudy, 50°

0700 arrive onsite [redacted]

0730 [redacted] perform source check on rad equipment. PID calibrated

0735 [redacted] arrive onsite safety meeting

0745 load up equipment, head to location 829-1 (McCarthur road)

0830 set up at location 829-1

0845 sample 0.0-0.5' (829-1SS0.0-0.5-0016)

0845 sample 0.5-2.0' (829-1SB0.5-2.0-0017)

0850 sample 2.0-3.0' (829-1SB2.0-3.0-0018)

0910 move to location 829-2.

0915 sample 0.0-0.5' (829-2SS0.0-0.5-0019)

~~0920 sample 0.5-2.0' (829-2SB0.5-2.0-0020)~~ error [redacted] 11/6/13

~~0925 sample 2.0-3.0' (829-2SB2.0-3.0-0021)~~

0925 meter 2360 mylar broken, not able to collect 0.5-2.0 and 2.0-3.0 samples

0930 [redacted] USACE, relocate 829-1 7'5" east of original location to move off of asphalt, move location EU do-3 15' from center so to be off of asphalt

Location NFSJ Date 11/6/13

Project / Client NFSJ - BOP Field Investigation

0935 [redacted] arrived new meter to arrive tomorrow morning. will bag sample at each location, survey and jar tomorrow after meter arrive

0955 move to location 829-4

1000 obtain 0.0 - 3.0 core from 829-4 take PID readings, bag intervals for survey and sampling tomorrow

1015 move to location 829-4

1020 obtain 0.0 - 3' core, PID scan

1040 move to location 606-2

1045 hand dig 0.0 - 0.5'

1050 obtain 0.5 - 3.0' core, PID readings

1100 move to location 606-1

1105 hand dig 0.0 - 0.5'

1110 obtain 0.5 - 3'

1115 move to location 606-4, location moved 2' north off of fence driller encountered rock, move location 2' to the west

1120 hand dig 0.0 - 0.5'

1125 obtain 0.5 - 3'

1140 move to location EU061-3

Location NFSJ Date 11/6/13

Project / Client NFSJ BOP Field Investigation 2013

1145 location EU061-3 attempt to hand auger to 0.5', still on asphalt. Relocate to ~2 feet west of marked location hand dig 0.0 - 0.5'

1150 obtain 0.5 - 3' interval

1200 move to location EU061-2

1205 hand dig 0.0 - 0.5'

1210 0.5 - 3.0' interval

1350 move to location EU061-1

1355 hand auger 0.0 - 0.5'

1400 obtain 0.5 - 3.0

1415 move to location EU061-4

Per [redacted] we will no longer hand dig the first 0.0 - 0.5'. will obtain all volume 0.0 - 3.0' with geoprobe

1420 obtain 0.0 - 3.0' interval

1445 move to location 6BØØ5

[redacted] verifing locations

1500 set up at location 6BØØ5 -2

1505 push down 0.0 - 3.0'

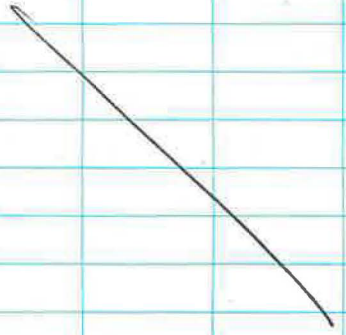
1520 [redacted] verify location of 6BØØ5 - 3, move to location, push 0.0 - 3.0'

1530 move to location 6BØØ5 - 1 push 0.0 - 3.0'

Location NFSS Date 11/6/13

Project / Client NFSS BOP Field Investigation 2013

1600 move to location GBOO5-4, located on other side of fence off MacArthur road
1605 push 0.0-3.0'
1610 move to location GWS-20
push 0.0-3.0'
1630 rinsate sample, sleeve, plug, sampling spoon & trowel
1700 end of data rad instrument source check, complete paperwork
1800 dyport site



[redacted]

Location NFSJ Date 11/7/13

Project / Client NFSJ- BOP Field Investigation

Sunny, 41°

0700 onsite [redacted]

0730 [redacted] arrived onsite for geophysical survey

0735 safety meeting [redacted] perform source check on Rad equipment

Calibrate PID

0800 mobilize to location GWS-19. moved location due to hot spot found during gamma survey

0850 push down 0.0-3.0' GWS-19

Picture of location

0900 PID reading, elevated data for model 12 0.5-2.0 interval (2x background) 2.0-3.0 (3x background). Push down same hole to 4.0, reading, drop 3.0-4.0' interval

0920 [redacted] USACE onsite

1000 hand auger 4.0-5.0', readings 2x above background

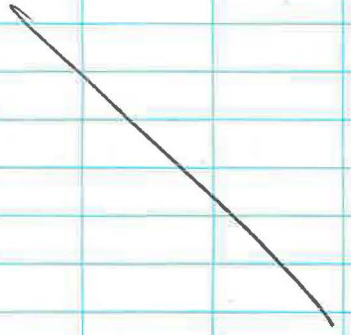
1020 move to location GWS-18 push down 0.0-3.0'

1030 [redacted] arrived onsite

Location NFSS Date 11/6/13

Project / Client NFSS BOP Field Investigation 2013

1600 move to location GBOO5-4, located on other side of fence off MacArthur road
1607 push 0.0-3.0'
1610 move to location GW3.2
push 0.0-3.0'
1630 rinsate sample, sleeve, plug, sampling spoon & trowel
1700 end of data rad instrument source check, complete paperwork
1800 depart site



[redacted]

Location NFSS Date 11/7/13

Project / Client NFSS- BOP Field Investigation

sunny, 41°

0700 onsite [redacted]

0730 [redacted] arrives onsite for geophysical survey

0735 safety meeting [redacted] perform source checks on Rad equipment

calibrate PID

0900 mobilize to location GWS-19. moved location due to hot spot found during gamma survey

0850 push down 0.0-3.0' GWS-19

picture of location

0900 PID reading, elevated data for model 12 0.5-2.0 interval (2x background) 2.0-3.0 (3x background). Push down same hole to 4.0, reading, drop 3.0-4.0' interval

0920 [redacted] USACE onsite

1000 hand auger 4.0-5.0', readings 2x above background

1020 move to location GWS-18

push down 0.0-3.0'

1030 [redacted] arrives onsite

Location NFSS Date 11/7/13

Project / Client NFSS -BOP Field Investigation

1100 move to location 6A00i-3 Verify 6A001 locations with [redacted]

1113 Sample 6A001-3

1140 move to location 6A00i-4

1200 sample 0.0-3.0 JTK 11/7/13

1200 6A0001-4SS-0.0-0.5-0073S

1205 6A0001-4SB 0.5-2.0-0074 6

1210 6A0001-4SB 2.0-3.0-0078 7

1345 move to location 6A0001-1

1400 sample 0.0-3.0'

1400 6A0001-1SS-0.0-0.5-0076 8

1405 6A0001-1SB 0.5-2.0-0078 79

Dup 6A0001-1 JTK 11-7-13

1410 6A0001-1SB 2.0-3.0-0079 80

1415 move to location 6A0001-2

1415 6A0001-2SS 0.0-0.5-0079 81 JTK 11-7-13

1420 6A0001-2SB 0.5-2.0-0080 82

1425 6A0001-2SB 2.0-3.0-0083

1450 advance to location GWS-21 JTK 11-7-13

1500 sample GWS-21SS 0.0-0.5-0084

1505 GWS-21SB 0.5-2.0-0085 85

1510 GWS-21SB 2.0-3.0-0086 86

GWS-21 located in center of dirt road, EW

Location NFSS Date 11/7/13

Project / Client NFSS - BOP Field Investigation

1520 move to location GWS-22

1530 sample 0.0-0.5' GWS-22SS0.0-0.5-0087

1535 (plus dup) GWS-22SB0.5-2.0-0088

1540 GWS-22SB2.0-3.0-0089

1545 move to location GWS-23

1550 sample 0.0-0.5' GWS-23SS0.0-0.5-0090

1555 0.5-2.0' GWS-23SB0.5-2.0-0091

1600 2.0-3.0' GWS-23SB2.0-3.0-0092

1600 move to location GWS-24

1600 sample GWS-24SS0.0-0.5-0093

1605 GWS-24SB0.5-2.0-0094

1610 GWS-24SB2.0-3.0-0095

1620 move to location SB-7 for tomorrow

1630 collect rinsate EB1-110713

[redacted] surveys and bottle sample collected yesterday while meter 2360 was inoperable

1305 828-1SS0.0-0.5-0016, 1310 828-1SB0.5-2.0-0017,

1315 828-1SB2.0-3.0-0018

1317 829-2SS0.0-0.5-0019

1335 829-2SB0.5-2.0-0020

1337 829-2SB2.0-3.0-0021

1340 829-1SS0.0-0.5-0022

Location NFSS Date 11/8/13

Project / Client NFSS - BOP Field Investigation

1342 829-1SB0.5-2.0-0023
1344 829-1SB2.0-3.0-0024
1346 829-4SS-0.0-0.5-0025
1348 829-4SB0.5-2.0-0026
1350 829-4SB2.0-3.0-0027
1354 ~~829~~ 606-2SS0.0-0.5-0028
1356 606-2SB0.5-2.0-0029
1358 606-2SB2.0-3.0-0030
1445 606-1SS0.0-0.5-0031
1450 606-1SB0.5-2.0-0032
1455 606-1SB2.0-3.0-0033
1445 606-1SS0.0-0.5D-9005
1456 606-4SS0.0-0.5-0034
1458 606-4SB0.5-2.0-0035
1459 606-4SB2.0-3.0-0036
1558 EV061-3SS0.0-0.5-0037
1602 EV061-3SB0.5-2.0-0038
1605 EV061-3SB2.0-3.0-0039
1620 EV061-2SS0.0-0.5-0040 ms-9007 msp 9008
1622 EV061-2SB0.5-2.0-0041
1625 EV061-2SB2.0-3.0-0042 dup 9009
1630 EV061-1SS0.0-0.5-0043
1632 EV061-1SB0.5-2.0-0044
1634 EV061-1SB2.0-3.0-0045

Location NFSS Date 11/8/13

Project / Client NFSS - BOP Field Investigation

1636 EV061-4SS0.0-0.5-0046
1638 EV061-4SB0.5-2.0-0047
1640 EV061-4SB2.0-3.0-0048
1642 6B005-2SS0.0-0.5-0049
1645 6B005-2SB0.5-2.0-0050
1648 6B005-2SB2.0-3.0-0051
1650 6B005-3SS0.0-0.5-0052 dup 9006
1652 6B005-3SB0.5-2.0-0053
1655 6B005-3SB2.0-3.0-0054
1657 6B005-1SS0.0-0.5-0055
1700 6B005-1SB0.5-2.0-0056
1702 6B005-1SB2.0-3.0-0057 ms 6B005-1SB2-3 ms-9011 6B005-1SB2.0-3.0 msd-9012
1705 6B005-4SS0.0-0.5-0058
1707 6B005-4SB0.5-2.0-0059
1710 6B005-4SB2.0-3.0-0060
1712 GWS-20SS0.0-0.5-0061
1714 GWS-20SB0.5-2.0-0062
1716 GWS-20SB2.0-3.0-0063
1720 GWS-19SS0.0-0.5-0064
1722 GWS-19SB0.5-2.0-0065
1722 GWS-19SB0.5-2.0-9013 [redacted]
1725 GWS-19SB2.0-3.0-0066
1727 GWS-19SB3.0-4.0-0067
1727 GWS-19SB3.0-4.0 ms-9014 [redacted]

Location NFSS Date 11/7/13

Project / Client NFSS - BOP Field Investigation

1127 GWS-19SB3.0-4.0-MD-0015
1730 GWS-19SB4.0-5.0-0008
1732 GWS-18SB0.0-0.5-0009
1735 GWS-18SB0.5-2.0-0070
1737 GWS-18SB2.0-3.0-0071
1130 GA001-3SB0.0-0.5-0072
1135 GA001-3SB0.5-2.0-0073
1140 GA001-3SB2.0-3.0-0074
1200 GA001-4SB0.0-0.5-0075
1205 GA001-4SB0.5-2.0-0076
1210 GA001-4SB2.0-3.0-0077
1400 GA001-1SB0.0-0.5-0078
1405 GA001-1SB0.5-2.0-0079
1407 GA001-1SB0.5-2.0-0016
1410 GA001-1SB2.0-3.0-0080
1415 GA001-2SB0.0-0.5-0081
1420 GA001-2SB0.5-2.0-0082
1425 GA001-2SB2.0-3.0-0083
1500 GWS-21SB0.0-0.5-0084
1505 GWS-21SB0.5-2.0-0085
1510 GWS-21SB2.0-3.0-0086
1530 GWS-22SB0.0-0.5-0087
1535 GWS-22SB0.5-2.0-0088
1540 GWS-22SB2.0-3.0-0089
1550 GWS-23SB0.0-0.5-0090
1555 GWS-23SB0.5-2.0-0091
1600 GWS-24SB2.0-3.0-0092
1600 GWS-24SB0.0-0.5-0093
1605 GWS-24SB0.5-2.0-0094
1610 GWS-24SB2.0-3.0-0095
1630 EBI-110613
1630 EBI-1107-13

Location NFSS Date 11/8/13

Project / Client NFSS - BOP Field Investigation

overcast, 30

[redacted] on site

0730 [redacted] perform source checks on rad equipment

0845 locate b.a. point SP1 for sampling. Point located in asphalt along O street. move location ~1.0' to south off of asphalt, sample to 4.0'

0915 sample SP1 0.0-0.5'
SP1SB0.0-0.5-0096

0920 SP1SB0.5-2.0-0097

0925 SP1SB2.0-3.0-0098

0928 SP1SB-3.0-4.0-0099

meter 4393 reading higher 0.0-2.0 interval, trending down at 2.0-4.0 interval

0941 move to location 4G002', along N street, EU5

Location 4G002-2 located N of N street, across ditch

1005 sample 0.0-0.5 4G002-2SS0.0-0.5-0100

1010 0.5-2.0' 4G002-2SB0.5-2.0-0101

1010 (plus dup) 4G002-2SB0.5-2.0-9020

1015 2.0-3.0' 4G002-2SB2.0-3.0-0102

Location NFSS Date 11/8/13

Project / Client NFSS BOP Field Investigation 2013

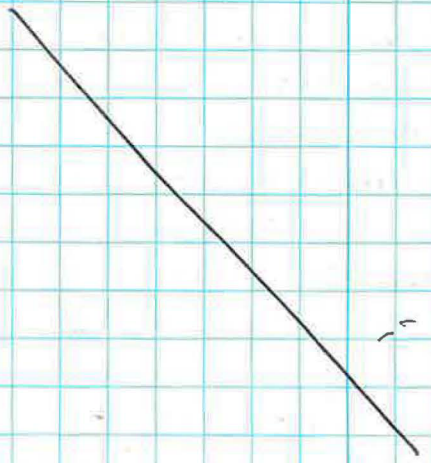
1020 move to location 4GØØ2-3
mylar punctured on meter 2360, get
replacement meter
1025 sample 0.0-0.5
4GØØ2-3550 0-0.5 -0103
1030 4GØØ2-3SB0.5-2.0-0104
1035 4GØØ2-3SB 2.0-3.0-0105
1045 move to location 4GØØ2-1
1055 sample 0.0-0.5 4GØØ2-1S20.0-0.5-0106
1100 0.5-2.0 4GØØ2-1SB0.5-2.0-0107
1105 2.0-3.0 4GØØ2-1SB 2.0-3.0-0108
1115 move to location 4GØØ2-4
sample 0.0-0.5 4GØØ2-4550 0-0.5-0109 1115
(f dup) 0.5-2.0 4GØØ2-4SB0.5-2.0-0110 1120
~~(f dup)~~ 2.0-3.0 4GØØ2-4SB2.0-3.0-0111 1125
dup 4GØØ2-4SBØ.5-2.0-9021 1120
~~JTK 11/8/13~~

1145 hydraulic line on probe broke.
Driller calling shop to see if mechanic
can come to sit to fix the line
1230 collect rinsate EB1-110513
1300 hydraulic line will be fixed
Monday morning
1400 [redacted] perform

Location NFSS Date 11/9/13

Project / Client NFSS - BOP Field Investigation 2013

gamma surveys & Kelly marks
out locations in grid for
Monday sampling
1430 D. Schunk leaves site
1500 clean area, fill out C-O-C,
paperwork
1700 depart site



[redacted]

Location NFSS Date 11/1/13

Project / Client NFSS - BCP Field Investigation 2013

overcast, high winds, 41°

0715 arrive onsite [redacted]

[redacted] working on probe + hydraulic line.

0735 Safety meeting, [redacted]

Calibrate rad meters

0830 hydraulic line fixed

0845 Set-up at location

0900 Stop location mH06-17, consulting geophysical survey to verify no underground utility line in area, move mH06-9 ~1' to the west

0905 Sample mH06-9 mH06-9SB0.0-0.5-0112

0910 0.5-2.0 mH06-9SB0.5-2.0-0113

0915 2.0-3.0 mH06-9SB2.0-3.0-0114

0920 move to location mH06-8

sample 0.0-0.5 mH06-8SB0.0-0.5-0115

0925 0.5-2.0 mH06-8SB0.5-2.0-0116

0930 2.0-3.0 mH06-8SB2.0-3.0-0117

0945 [redacted] confirmed all location with GPI in EUH Grid area

0950 move to location mH06-7

sample 0.0-0.5' mH06-7SB0.0-0.5-0118

0955 0.5-2.0 mH06-7SB0.5-2.0-0119

1000 2.0-3.0 mH06-7SB2.0-3.0-0120

Location NFSS Date 11/1/13

Project / Client NFSS - BCP Field Investigation 2013

ms/msD collected 0.5-2.0' interval

mH06-7SB0.5-2.0ms-9022 0955

mH06-7SB0.5-2.0msD-9023 0955

1010 move to location mH06-6

1015 sample 0.0-0.5 mH06-6SB0.0-0.5-0121

1020 0.5-2.0 mH06-6SB0.5-2.0-0122

1025 2.0-3.0 mH06-6SB2.0-3.0-0123 (+dup) mH06-6SB2.0-3.0-9024

1050 move to location mH06-5

1055 sample 0.0-0.5 mH06-5SB0.0-0.5-0124

1100 0.5-2.0 mH06-5SB0.5-2.0-0125

1105 2.0-3.0 mH06-5SB2.0-3.0-0126

1120 move to location mH06-4

1125 sample 0.0-0.5' mH06-4SB0.0-0.5-0127

1130 0.5-2.0 mH06-4SB0.5-2.0-0128

1135 2.0-3.0 mH06-4SB2.0-3.0-0129

1200 review Geophysical survey 2012 to see location of utility line. Hold off on sampling location mH06-3 per [redacted] will consult with [redacted] on utility line location in this area

1315 move to location mH06-3, able to see utility area, ~10 feet away from utility area. Consult with N. Miller and ok to sample mH06-3

Location NFSS Date 11/11/13

Project / Client NFSS - BOP Field Investigation 2013

rain, windy, 41°

1345 MH06-3 Sample 0.0-0.5 MH06-3SS0.0-0.5-0130

1350 0.5-2.0 MH06-3SB0.5-2.0-0131

1350 0.5-2.0 duplicate MH06-3SB0.5-2.0D-9025

1355 2.0-3.0 MH06-3SB2.0-3.0-0132

1400 readings 2x background with 449, 4493 meters

sample 3.0-5.0 interval

1400 3.0-4.0 MH06-3SB3.0-4.0-0133

1410 4.0-5.0 MH06-3SB4.0-5.0-0134

1420 move to location MH06-2

1420 sample 0.0-0.5 MH06-2SS0.0-0.5-0135

1425 0.5-2.0 MH06-2SB0.5-2.0-0136

duplicate 0.5-2.0 MH06-2SB0.5-2.0D-9026

1430 2.0-3.0 MH06-2SB2.0-3.0-0137

1435 3.0-4.0 MH06-2SB3.0-4.0-0138

1440 4.0-5.0 MH06-2SB4.0-5.0-0139

1450 move to location MH06-1

1455 sample 0.0-0.5 MH06-1SS0.0-0.5-0140

1500 0.5-2.0 MH06-1SB0.5-2.0-0141

duplicate 0.5-2.0 MH06-1SB0.5-2.0D-9027

1505 2.0-3.0 MH06-1SB2.0-3.0-0142

1515 move to location MH06-10

1515 sample 0.0-0.5 MH06-10SS0.0-0.5-0143

1520 0.5-2.0 MH06-10SB0.5-2.0-0144

1525 2.0-3.0 MH06-10SB2.0-3.0-0145

1525 dup MH06-10SB2.0-3.0D-9028

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Higher readings with 449+4493 meters, push down 3.0-5.0

1540 sample 3.0-4.0 MH06-10SB3.0-4.0-0146

1545 4.0-5.0 MH06-10SB4.0-5.0-0147

1600 move to location MH06-11

1605 sample 0.0-0.5 MH06-11SS0.0-0.5-0148

1610 0.5-2.0 MH06-11SB0.5-2.0-0149

MS/MSD 0.5-2.0 MH06-11SB0.5-2.0MS-9029

0.5-2.0 MH06-11SB0.5-2.0MSD-9030

1615 2.0-3.0 MH06-11SB2.0-3.0-0150

1620 3.0-4.0 MH06-11SB3.0-4.0-0151

1625 4.0-5.0 MH06-11SB4.0-5.0-0152

Higher readings at 2-3' interval, pushed down to 5.0'

1640 decon and clean area

1645 collect rinsate sample EB1-111113

1700 end of day rad source checks, paperwork, depart site

[redacted]

Location NFSS Date 11/12/13

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over cast, light snow, 30°

0715 Onsite: [redacted]

0730 [redacted] perform source checks

0815 start at location MH06-12

0830 sample 0.0-0.5 MH06-12SS0.0-0.5-0153

0835 0.5-2.0 MH06-12SB0.5-2.0-0154

0840 2.0-3.0 MH06-12SB2.0-3.0-0155

0840 dup 2.0-3.0 MH06-12SB2.0-3.0D-0031

0905 move to location MH06-13

0905 sample 0.0-0.5 MH06-13SS0.0-0.5- ~~0132~~ 0156

0910 0.5-2.0 MH06-13SB0.5-2.0- ~~0133~~ 0157 11-12-13

0915 2.0-3.0 MH06-13SB2.0-3.0-0158

0925 move to location MH06-14

0930 sample 0.0-0.5 MH06-14SS0.0-0.5-0159

0935 0.5-2.0 MH06-14SB0.5-2.0-0160

0940 2.0-3.0 MH06-14SB2.0-3.0-0161

0950 move to location MH06-15

0955 sample 0.0-0.5 MH06-15SS0.0-0.5-0162

1000 0.5-2.0 MH06-15SB0.5-2.0-0163

1000 MS 0.5-2.0 MH06-15SB-0.5-2.0MS-~~0132~~ 90

1000 MSD 0.5-2.0 MH06-15SB-0.5-2.0MSD-~~0133~~ 90

1005 2.0-3.0 MH06-15SB-2.0-3.0-0164

1010 move to location MH06-16

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1015 sample 0.0-0.5 MH06-16SS0.0-0.5-0165

1020 0.5-2.0 MH06-16SB0.5-2.0-0166

1025 2.0-3.0 MH06-16SB2.0-3.0-0167

1030 move to location MH06-17

1030 sample 0.0-0.5' MH06-17SS0.0-0.5-0168

1035 sample 0.5-2.0' MH06-17SB0.5-2.0-0169

1040 2.0-3.0 MH06-17SB2.0-3.0-0170

1045 move to location MH06-24

1050 sample 0.0-0.5' MH06-24SS0.0-0.5-0171

1055 0.5-2.0 MH06-24SB0.5-2.0-0172

1055 dup 0.5-2.0 MH06-24SB0.5-2.0D-~~0934~~ 90

1100 2.0-3.0 MH06-24SB2.0-3.0-0173

1105 move to location MH06-23

1105 sample 0.0-0.5 MH06-23SS0.0-0.5'-0174

1110 0.5-2.0 MH06-23SB0.5-2.0-0175

1110 MS 0.5-2.0 MH06-23SB0.5-2.0MS-~~0935~~ 90

1110 MS 0.5-2.0 MH06-23SB0.5-2.0MSD-~~0936~~ 90

1115 2.0-3.0 MH06-23SB2.0-3.0-0176

1120 move to location MH06-22

1120 sample 0.0-0.5' MH06-22SS0.0-0.5-0177

1125 0.5-2.0' MH06-22SB0.5-2.0-0178

1125 dup 0.5-2.0' MH06-22SB0.5-2.0-~~0137~~ 90

1130 2.0-3.0 MH06-22SB2.0-3.0-0179

1230 move to location MH06-21

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MH06-21

1240 Sample 0.0-0.5 MH06-21SS0.0-0.5-0180
1245 0.5-2.0 MH06-21SB0.5-2.0-0181
1250 2.0-3.0 MH06-21SB2.0-3.0-0182
1300 move to location MH06-20
1300 Sample 0.0-0.5 MH06-20SS0.0-0.5-0183
1305 0.5-2.0 MH06-20SB0.5-2.0-0184
1310 2.0-3.0 MH06-20SB2.0-3.0-0185
1315 moved to location MH06-19
1320 sample 0.0-0.5 MH06-19SS0.0-0.5-0186
1325 0.5-2.0 MH06-19SB0.5-2.0-0187
1325 dup 0.5-2.0 MH06-19SB0.5-2.0D-0188 (90) JTK 11-12-13
1330 2.0-3.0 MH06-19SB2.0-3.0-0189
1340 move to location MH06-18
1340 Sample 0.0-0.5 MH06-18SS0.0-0.5-0189
1345 0.5-2.0 MH06-18SB0.5-2.0-0190
1350 2.0-3.0 MH06-18SB2.0-3.0-0191 JTK 11-12-13
1345 dup 0.5-2.0 MH06-18SB0.5-2.0D-0139 (90) JTK 11-12-13
1355 move to location MH06-25
1355 Sample 0.0-0.5 MH06-25SS0.0-0.5-0192
1400 0.5-2.0 MH06-25SB0.5-2.0-0193
1405 2.0-3.0 MH06-25SB2.0-3.0-0194
1410 move to location MH06-26
1410 Sample 0.0-0.5 MH06-26SS0.0-0.5-0195
1415 0.5-2.0 MH06-26SB0.5-2.0-0196

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1420 2.0-3.0 MH06-26SB2.0-3.0-0197
Higher readings with both rad meters, Sample 3-4' and 4-5' interval
1425 3.0-4.0 MH06-26SB3.0-4.0-0198
~~1430 4.0-5.0 MH06-26SB4.0-5.0-0199~~ JTK 11/12/13
Rad counts decreased 3-4' and the 4-5', did not sample 4-5' interval due to poor recovery, and decreasing counts, hit metal at 5.0'
1445 move to location MH06-27
1445 sample 0.0-0.5 MH06-27SS0.0-0.5-0199
1450 0.5-2.0 MH06-27SB0.5-2.0-0200
1450 dup 0.5-2.0 MH06-27SB0.5-2.0D-0940 (90)
1455 2.0-3.0 MH06-27SB2.0-3.0-0201
1500 moved to location 28, no recovery, move ~2 feet to the east of original hole, ~~hit metal at refusal~~ JTK 11/12/13
1515 sample location MH06-28
1515 0.0-0.5 MH06-28SS0.0-0.5-0202
1520 0.5-2.0 MH06-28SB0.5-2.0-0203 (90) JTK 11-12-13
1520 0.5-2.0 MH06-28SB0.5-2.0MS-0141 (90)
1522 0.5-2.0 MH06-28SB0.5-2.0MSD-0942
1525 2.0-3.0 MH06-28SB2.0-3.0-0204
1530 move to MH06-29
1530 Sample 0.0-0.5 MH06-29SS0.0-0.5-0205

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1535 sample 0.5-2.0 MH06SB0.5-2.0-0206
1540 2.0-3.0 MH06SB 2.0-3.0-0207
1555 move to location MH06-30
1555 Sample 0.0-0.5 MH06-30SS0.0-0.5-0208
1600 0.5-2.0 MH06-30SB0.5-2.0-0209
1605 2.0-3.0 MH06-30SB2.0-3.0-0210
higher rad meter readings at 2-3' interval,
dropped at 3-4', sampled 3-4' interval
1610 3.0-4.0 MH06-30SB3.0-4.0-0211
1630 collect rinsate on shoe and
trowel EB1-111213
1700 perform end of day rad meter
source checks, complete C-O-Cs,
paperwork
1730 depart site

[redacted]

Location NFSS Date 11/13/13

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overcast, windy, 35°

0715 arrive onsite [redacted]
[redacted]
0730 D schunk on site
safety meeting, [redacted]
perform rad equipment source checks
0800 head to location MH06-31
0835 sample 0.0-0.5 MH06-31SS0.0-0.5-0212
0840 0.5-2.0 MH06-31SB-0.5-2.0-0213
0845 2.0-3.0 MH06-31SB 2.0-3.0-0214
0850 move to location MH06-35
0855 sample 0.0-0.5 MH06-35SS0.0-0.5-0215
0900 sample 0.5-2.0 MH06-35SB0.5-2.0-0216
0905 2.0-3.0 MH06-35SB2.0-3.0-0217
0910 move to location MH06-34
0915 sample 0.0-0.5 MH06-34SS0.0-0.5-0218
0920 0.5-2.0 MH06-34SB0.5-2.0-0219
0920 dup 0.5-2.0 MH06-34SB0.5-2.0D-0943 90
0925 2.0-3.0 MH06-34SB2.0-3.0-0220
0930 move to location MH06-33
0930 sample 0.0-0.5 MH06-33SS0.0-0.5-0221
0935 0.5-2.0 MH06-33SS0.5-2.0-0222
0940 2.0-3.0 MH06-33SB2.0-3.0-0223
0950 move to location MH06-32
0955 sample 0.0-0.5 MH06-32SS0.0-0.5-0224

Location NFSJ Date 11/13/13

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mH06-32

1000 sample 0.5-2.0 mH06-32SB0.5-2.0-0225

1000 MS 0.5-2.0 mH06-32SB0.5-2.0MS-0944 (90)

1000 MSD mH06-32SB0.5-2.0 mSD-0945 (90) JTK 11-13-13

1005 2.0-3.0 mH06-32SB2.0-3.0-0226

1015 mobilize to EU11 location 2A006

2A006-2 and 2A006-4 in ditch, consult with [redacted] and move points to the west of original location

1020 push down at 2A006-4, no recovery very wet, move 2A006-4, five feet from original location

1025 sample 2A006-4, ~50% recovery

1025 0.0-0.5 2A006-4550.0-0.5-0227

1030 0.5-2.0 2A006-45B0.5-2.0-0228

1030 dup 0.5-2.0 2A006-45B0.5-2.0D-0946 (90) JTK 11-13-13

1035 2.0-3.0 2A006-45B2.0-3.0-0229

1040 mobilize to location 2A006-1, refusal at 2', JTK 11-13-13 ~~could~~ read material, consult with [redacted], move location 4' to the east of original location

1045 sample 2A006-100-0.5 2A006-1550.0-0.5-0230

1100 0.5-2.0 2A006-15B0.5-2.0-0231

1105 2.0-3.0 2A006-15B2.0-3.0-0232

Location NFSJ Date 11/13/13

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windy, clear, 35°

1115 move to location 2A006-2

1115 sample 0.0-0.5 2A006-2550.0-0.5-0233

1120 0.5-2.0 2A006-25B0.5-2.0-0234

1125 2.0-3.0 2A006-25B2.0-3.0-0235

1130 mobilize to location 2A006-3, location near ditch, consult with [redacted] move location ~4.0' to south of original location

1135 sample 0.0-0.5 2A006-3550.0-0.5-0236

1140 0.5-2.0 2A006-35B0.5-2.0D-0947 (0237) JTK 11-13-13

1140 dup 0.5-2.0 2A006-35B0.5-2.0D-0947 JTK 11-13-13

1145 2.0-3.0 2A006-35B2.0-3.0-0238

1200 mobilize to location 8A004

1306 start at bias point SP9, in the area of 8A004. met refusal at 2.0'

SP9 ~~0.0-0.6 dark brown silty clay, organics, some fine sand~~ JTK 11/13/13 error, highest reading 1.0' below surface, reading drop at 2.0. Per [redacted] JTK 11-13-13 will sample ~~0.5-1.5~~ 0.5-1.5 and 0.5-2.0, no need to push down to 3.0'

[redacted] put 2221 meter down hole to get readings

1315 sample 0.5-1.5 SP90.5-1.5-0239 (SB)

1320 1.5-2.0 SP91.5-2.0-0240 (SB)

1330 move to location 8A004-1

1330 sample 0.0-0.5 8A004-1550.0-0.5-0241

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1335 0.5-2.0 SA004-1SB0.5-2.0-0242

1335 MS 0.5-2.0 SA004-1SB0.5-2.0MS-0248

1335 MSD 0.5-2.0 SA004-1SB0.5-2.0MSD-0249

1340 2.0-3.0 SA004-1SB2.0-3.0-0243

1410 move to locatio, SA004-2

1415 sample 0.0-0.5 SA004-2SS00-0.5-0244

1420 0.5-2.0 SA004-2SB0.5-2.0-0245

1425 2.0-3.0 SA004-2SB2.0-3.0-0246

1435 move to location SA004-3

1435 sample 0.0-0.5 SA004-3SS00-0.5-0247

1440 sample 0.5-2.0 SA004-3SB0.5-2.0-0248

1440 dup 0.5-2.0 SA004-3SB0.5-2.0D-0250

1445 2.0-3.0 SA004-3SB2.0-3.0-0249

1450 move to locatio SA004-4

1455 sample 0.0-0.5 SA004-4SS00-0.5-0250

1500 0.5-2.0 SA004-4SB0.5-2.0-0251

1505 2.0-3.0 SA004-4SB2.0-3.0-0252

1515 move to locatio, TBS10-03-1

1515 sample 0.0-0.5 TBS10-03-1SS00-0.5-025

1520 0.5-2.0 TBS10-03-1SB0.5-2.0-025

1525 2.0-3.0 TBS10-03-1SB2.0-3.0-025

1530 move to TBS10-03-2

1540 sample 0.0-0.5 TBS10-03-2SS00-0.5-0256

1545 0.5-2.0 TBS10-03-2SB0.5-2-0257

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TBS10-03-2

1550 TBS10-03-2SB2.0-3.0- 0258

1550

1600 move to TBS10-03-3

1600 sample 0.0-0.5 TBS10-03-3SS00-0.5-0259

1605 0.5-2.0 TBS10-03-3SB0.5-2.0-0260

1605 dup 0.5-2.0 TBS10-03-3SB0.5-2.0D-0261

1610 2.0-3.0 TBS10-03-3SB2.0-3.0-0261

1630 rinsate blank travel EB1-111313

clean up, complete C-O-C.

[redacted]