

Revised 7/10/2015

Johnson

NE NE NE

19-13-22E

HTW DRILLING LOG										HOLE NO. 67 MW 13
1. COMPANY NAME <i>Burns + McDonnell</i>					2. DRILLING SUBCONTRACTOR <i>Razek Environmental</i>					SHEET 1 OF 5 SHEETS
3. PROJECT <i>SWMD 67 RFI</i>					4. LOCATION <i>SFAAP</i>					
5. NAME OF DRILLER <i>T. Razek</i>					6. MANUFACTURER'S DESIGNATION OF DRILL <i>Geoprobe 7822-DT</i>					
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT					8. HOLE LOCATION					
2 inch Probe					9. SURFACE ELEVATION					
w/ Acetate Sampler					10. DATE STARTED <i>3-27-18</i>					
6 inch HSA					11. DATE COMPLETED <i>4-3-18</i>					
8 inch Air Hammer					12. OVERBURDEN THICKNESS					
					15. DEPTH GROUNDWATER ENCOUNTERED <i>Not Encountered</i>					
13. DEPTH DRILLED INTO ROCK					16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <i>10.12' BGS 4/9/18</i>					
14. TOTAL DEPTH OF HOLE <i>30.0'</i>					17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)					
18. GEOTECHNICAL SAMPLES <i>NA</i>			DISTURBED		UNDISTURBED		19. TOTAL NUMBER OF CORE BOXES			
20. SAMPLES FOR CHEMICAL ANALYSIS			VOC		METALS		OTHER (SPECIFY)		OTHER (SPECIFY)	
									21. TOTAL CORE RECOVERY %	
22. DISPOSITION OF HOLE			BACKFILLED		MONITORING WELL		OTHER (SPECIFY)		23. SIGNATURE OF INSPECTOR	
			<i>MW-13</i>						<i>[Signature]</i>	

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	0.5	SILTY CLAY, MH, Black (104R 2/1) Damp to Moist, Soft Consistency, High Plasticity, Trace Roots.	PIED 0.0				Begin 1352
	1.0						Continuous Logging
	1.5		0.0				
	2.0						Relatively 5.0/5.0
	2.5	CLAY, CH, Light Yellowish Brown (2.54 6/4), Dry to Damp, Medium Consistency, High Plasticity.	0.0	NA	NA	NA	
	3.0	Trace Iron + Magnesium Noodles					
	3.5	Mottling Gray (2.54 5/1)	0.0				
	4.0						
	4.5		0.0				

HTW DRILLING LOG

HOLE NO. 67 MW 13

PROJECT SWMU 67 RFI

INSPECTOR S. Woodland

SHEET 2
OF 5 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	5.0	CLAY, CH, Light Yellowish Brown (2.54 6/4), Dry to Damp, Medium Consistency, High Plasticity					
	5.5	Trace Iron + Magnesium Nodules Mottling Gray (2.54 5/1)					
	6.0		0.0				
	6.5						
	7.0		0.0				
	7.5						
	8.0		0.0				
	8.5		0.0				
	9.0	SHALE, Moderate olive gray (54 4/4), Dry to damp, Highly Weathered, Trace Plasticity, Laminated		NA	NA	NA	
	9.5		0.0				
	10.0						
	10.5		0.0				
	11.0						
	11.5		0.0				
	12.0						
	12.5						
	13.0						

Recovery
5.0/5.0Recovery
4.0/4.0

PROJECT SWMU 67 RFI

HOLE NO. 67 MW 13

Johnson

NE NE NE

17-13-22E

HTW DRILLING LOG

HOLE NO.

67 MW 13

PROJECT

SWMU 67 RFI

INSPECTOR

S. Woodland

SHEET

OF 5 SHEETS

ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	13.5	SHALE, Moderate olive gray (54 4/4), Dry to damp, Highly weathered. Trace Plasticity laminated.	0.0				Recovery 4.0/4.0
	14.0	LIMESTONE, lite olive gray (54 5/2)					3-27-18 Refused @ 14.0'
	14.5						3-29-18 1035: HSA overdrill
	15.0						1045: HSA Refusal @ 14.0'
	15.5						1108: Begin Air Rotary @ 14.0'
	16.0						
	16.5						
	17.0						Log from cuttings
	17.5			NA	NA	NA	
	18.0						
	18.5						
	19.0						
	19.5						
	20.0	SHALE, Medium Gray (N5) Dry					
	20.5						
	21.0						
	21.5						

PROJECT

SWMU 67 RFI

HOLE NO.

67 MW 13

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NE NE NE

19-13-22E

HTW DRILLING LOG							HOLE NO. 67 MW 13
PROJECT SWMU 67 RFI			INSPECTOR S. Woodland			SHEET 34 OF 34 SHEETS	
ELEV. a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS d	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO. f	BLOW COUNTS g	REMARKS h
	22.0	SHALE, Medium Gray (NS) Dry					
	22.5	LIMESTONE, Medium Gray (NS), Dry.					
	23.0						
	23.5						
	24.0	SHALE, Medium Gray (NS) Dry					
	24.5						Logged from Cuttings
	25.0						
	25.5						
	26.0			NA	NA	NA	
	26.5						
	27.0	SHALE w/ LIMESTONE, Medium Gray (NS), Dry					
	27.5						
	28.0						
	28.5						
	29.0						
	29.5						
	30	Bottom of Hole @ 30.0'					Finished 1140 SEE Page 4

PROJECT SWMU 67 RFI

HOLE NO. 67 MW 13

19-13-22E

HOLE NO.	67 MW 13
SHEET	5
OF	5 SHEETS

PROJECT: SWMU 67 RFI

INSPECTOR S. Woodlawn

SHEET 5
OF 5 SHEETS

PROJECT 3W MV 67 RFI

HOLE NO. 67 MW13