



FIELD BOREHOLE LOG

BOREHOLE NO.: MW-299

TOTAL DEPTH (FT BGS): 97

PROJECT INFORMATION

PROJECT: SRI Phase 3

PROJECT NO.: 10058697

SITE LOCATION: DDMT, Main Installation

PROJECT MANAGER: T. Holmes

FIELD STAFF: C. Mokri

BOREHOLE STARTED: 7/9/2018

BOREHOLE FINISHED: 7/9/2018

DRILLING INFORMATION

DRILLING CO.: Cascade Drilling, L.P.

DRILLER: Larry Yancy

DRILLING METHOD/RIG: Sonic, S1159

BOREHOLE DIAMETER: 6 in.

GROUND SURFACE ELEVATION (FT NAVD): 293.04

WATER DEPTH/ DATE(FT BTOC): 83.82 on 8/11/18

BOREHOLE USE: Monitoring Well

NOTES: PID readings collected from at least 5 foot intervals beginning at ground surface; all readings were 0 parts per million (ppm) except for 2.6 ppm at 48 ft. bgs. No water used during drilling. Well installed 07/09, pad constructed 07/10 and well developed 07/17/18.

Depth (ft, bgs)	Soil Symbol	Soil Description	Well Completion	Comments
		Gravel, aggregate base		
		ML Silt with trace fine sand, medium stiff, non-plastic, low dry strength, 2.5 YR 5/3, reddish brown, dry		
10		Soft, medium plasticity, 2.5 YR 6/3, light reddish brown, moist		
		CL Clay, medium plasticity, medium stiff, 2.5 YR 6/3, light reddish brown, moist		
20		ML Silt with trace clay, very stiff, medium dry strength, 2.5 YR 6/3, light reddish brown with light gray mottle, dry		
		With few fine sand, low dry strength, 2.5 YR 6/3, light reddish brown with some black specks		
		CL Clay with little sand, soft, medium to fine grained, medium plasticity, 2.5 YR 4/4, reddish brown, moist		
		SC Clayey sand, medium to fine grained, very dense, 2.5 YR 5/6, red, dry		
30		SW Sand with trace subangular gravel to 1/8", dense, 2.5 YR 6/6, light red, dry Trace subrounded gravel to 1/2", very dense, light gray mottling With little clay		
40		SP Sand, medium to fine grained, loose, 2.5 YR 5/8, red, moist Fine grained, very loose Medium grained With some gravel, subrounded to 1"		
50		SW Sand with trace subrounded gravel to 1", very loose, 2.5 YR 6/8, light red, moist		2.6 ppm

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FIELD BOREHOLE LOG

BOREHOLE NO.: MW-299

TOTAL DEPTH (FT BGS): 97

Depth	Soil Symbol	Soil Description	Well Completion	Comments
		No gravel		
		Few subrounded gravel to 1", 2.5 YR 6/4, light reddish brown		
60	SP	Sand, fine to medium grained, few subrounded gravel to 1/4", very loose, 2.5 YR 5/4, reddish brown, moist		
	SW	Sand, fine grained, very loose, 2.5 YR 6/4, light reddish brown, moist Trace subrounded gravel to 1/4", 2.5 YR 6/6, light red, moist Few subrounded gravel to 1/2", very dense 2.5 YR 4/8, red		
70	SP	Sand with few gravel subrounded to 1", fine to medium grained, very loose, 2.5 YR 6/6, light red Few subrounded gravel to 1.5", 2.5 YR 8/2, pinkish white		
	SW	Sand with few subrounded gravel to 1/2", very loose, 2.5 YR 5/8, red, moist		
	SW/GW	Sand and gravel, subrounded gravel to 1.5", very loose, 2.5 YR 4/8, red, wet		
	GW	Gravel, subrounded to 1.5", very loose, 2.5 YR 6/8, light red, wet		
	SW	Sand with some subrounded gravel to 1/2", very loose, 2.5 YR 4/8, red, moist		
80	SP	Sand, fine to medium grained, very loose, 2.5 YR 7/4, light reddish brown, moist With some subangular gravel to 1/2", 2.5 YR 8/2, pinkish white 2.5 YR 6/6, light red Fine grained, no gravel, 2.5 YR 6/8, light red 2.5 YR 7/4, light reddish brown 2.5 YR 7/3, light reddish brown 2.5 YR 8/2, pinkish white		
	GW	Gravel with some fine grained sand, subrounded gravel to 1/2", very loose, 2.5 YR 6/6, light red, moist Wet		
90	SP	Sand with trace subrounded gravel to 1/2", fine grained, very loose, 2.5 YR 7/3, light reddish brown, wet No gravel, 2.5 YR 6/6, light red		
	SW	Sand with trace subangular gravel to 1/2", medium grained, very loose, 2.5 YR 7/6, light red, wet With little gravel to 1/2", 2.5 YR 8/2 2.5 YR 6/4, light reddish brown 2.5 YR 8/2, pinkish white		
100	CL	Clay, very stiff, medium plasticity, 2.5 YR 6/6, light red, moist		

The well completion diagram shows a vertical cross-section of the well. It includes a sand pack at the top, followed by a bentonite seal. A screen is located at a depth of 83.82 ft. Below the screen is an end cap. The diagram is color-coded to match the soil layers: light brown for sand, grey for gravel, and dark grey for clay.

83.82 ft. btoc

SAND PACK

BENTONITE

SCREEN

END CAP

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