



FIELD BOREHOLE LOG

Well ID: MW-311
Total Depth (ft. bgs): 184

PROJECT: SRI Phase 4

PROJECT NUMBER: 10058697

SITE LOCATION: N. of Bldg. 560

PROJECT MANAGER: T. Holmes

LOGGED BY: C. Mokri

DATE STARTED: 9/27/19

DATE COMPLETED: 9/29/19

DRILLING CONTRACTOR: Cascade

DRILLER: T. Taylor

METHOD/RIG: Gus Pech Sonic

HOLE DIAMETER (IN): 6

GROUND SURFACE ELEVATION (NAVD): 304.26

DEPTH TO WATER (ft. btoc): 96.25 on 12/5/2019

BOREHOLE USE: Groundwater Monitoring Well

NOTES: PID measurement indicated where greater than 0. No water used during drilling.

Well installed on 9/29, pad installed on 9/30, and well developed on 10/10.

DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	LAYER DEPTH	MATERIAL DESCRIPTION	Environmental Data PID (ppm)	WELL DIAGRAM
0						Casing Top Elev: 303.99 (ft)
	ML			SILT, (ML) 5YR 3/3 dark reddish brown, dry, medium stiff, non plastic, low dry strength		<p>- Sch 80 PVC Blank Casing</p>
10	ML		10.0	SILT, (ML) 5YR 4/4 reddish brown / moderate brown, dry, medium stiff, low plasticity, medium dry strength, trace fine sand		
	CL		12.0	LEAN CLAY, (CL) 5YR 6/3 light reddish brown, dry, medium stiff, low plasticity		
	ML		16.0	SILT, (ML) 5YR 6/3 light reddish brown, dry, medium stiff, low plasticity, trace fine gravel		
20	CL		19.0	LEAN CLAY, (CL) 5YR 6/3 light reddish brown, dry, soft, low plasticity, trace fine gravel, trace fine sand		
	CL		24.0	LEAN CLAY, (CL) 7.5YR 5/4 brown, soft, medium plasticity, little fine sand		
	CL		25.0	LEAN CLAY, (CL) dry, soft, medium plasticity		
	SC		26.0	CLAYEY SAND, (SC) fine to medium grained, dry, soft, medium plasticity		
	SC		28.0	CLAYEY SAND, (SC) fine to medium grained, dry, stiff, medium plasticity		
30	SC		32.0	CLAYEY SAND, (SC) 2.5YR 3/6 dark red, medium grained, dry, very stiff, medium plasticity		
	SP		33.0	POORLY GRADED SAND, (SP) 2.5YR 4/8 red, fine to medium grained, dry, medium dense		
	SP		38.0	POORLY GRADED SAND, (SP) 2.5YR 5/8 red, fine to medium grained, dry, loose		
40	SP		41.0	POORLY GRADED SAND, (SP) 7.5YR 6/8 reddish yellow, fine grained, moist, very loose		
	SP		44.0	POORLY GRADED SAND, (SP) 7.5YR 6/8 reddish yellow, fine grained, moist, very loose		
	GP		48.0	POORLY GRADED GRAVEL, (GP) angular, fine to medium grained, loose		
50	SP		48.3	POORLY GRADED GRAVEL, (GP) angular, fine to medium grained, loose		

CREATED BY: C. Mokri

CREATED DATE: 10/21/19

CHECKED BY: T. Holmes

CHECKED DATE: 2/28/20



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50						
-	SP			POORLY GRADED SAND, (SP) 7.5YR 5/6 strong brown, moist, medium dense, little gravel <i>(continued)</i>		
-			58.0			
-	SP		60.0	POORLY GRADED SAND, (SP) 7.5YR 7/4 pink, fine grained, very loose, trace gravel		
-	SP		65.0	POORLY GRADED SAND, (SP) 5YR 5/8 yellowish red, fine grained, dry, very loose, trace gravel		
-	SP		67.0	POORLY GRADED SAND, (SP) 5YR 6/8 reddish yellow, fine to medium grained, very loose, with fine gravel		
-	SP		72.5	POORLY GRADED SAND, (SP) 7.5YR 7/4 pink, fine to medium grained, dry, very loose, with gravel		
-	GW		74.5	WELL GRADED GRAVEL, (GW) 2.5YR 5/6 red, subrounded, dry, very loose		
-	SP		80.0	POORLY GRADED SAND, (SP) 2.5YR 8/2 pinkish white, fine grained, very loose		
-	SP		86.0	POORLY GRADED SAND, (SP) 5YR 7/2 pinkish gray / grayish orange pink, fine grained, moist, very loose		
-	SP		87.0	POORLY GRADED SAND, (SP) 5YR 7/2 pinkish gray / grayish orange pink, fine grained, moist, very loose, little clay		
-	SP		88.0			
-	SP		89.0	POORLY GRADED SAND, (SP) 2.5YR 7/2 pale red, fine grained, moist, very loose		
-	SP			POORLY GRADED SAND, (SP) 2.5YR 6/6 light red, fine grained, moist, very loose		
-	SP			POORLY GRADED SAND, (SP) 2.5YR 6/2 pale red, fine grained, moist, very loose		
-			97.0			
-	SP		100.0	POORLY GRADED SAND, (SP) 7.5YR 6/8 reddish yellow, fine to medium grained, very loose, trace clay, trace gravel		
-	SP		104.0	POORLY GRADED SAND, (SP) 7.5YR 7/8 reddish yellow, fine to medium grained, wet, very loose		
-	SP		105.0	POORLY GRADED SAND, (SP) 7.5YR 7/8 reddish yellow, fine to medium grained, wet, very loose, trace gravel		
-	SW			WELL GRADED SAND, (SW) 7.5YR 6/6 reddish yellow, wet, very loose, little gravel		

- Cement-Bentonite
Grout



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110	SW		109.0	WELL GRADED SAND, (SW) 7.5YR 6/6 reddish yellow, wet, very loose, little gravel (continued)		
	CH		110.0	FAT CLAY, (CH) 7.5YR 5/6 strong brown, moist, medium stiff, high plasticity, trace fine sand		
	SP		113.0	POORLY GRADED SAND, (SP) 5YR 6/8 reddish yellow, fine to medium grained, wet, very loose, trace gravel		
	SW		115.0	WELL GRADED SAND, (SW) 5YR 5/6 yellowish red / light brown, wet, very loose, little gravel		
	GW		119.0	WELL GRADED GRAVEL, (GW) 5YR 6/4 light reddish brown / light brown, wet, very loose		
120	SC		122.0	CLAYEY SAND, (SC) 5Y 6/1 gray / light olive gray, fine to medium grained, wet, soft, medium plasticity		
	CH			FAT CLAY, (CH) 5Y 5/1 gray, moist, medium stiff, high plasticity		
130	GW		134.0	WELL GRADED GRAVEL, (GW) 10YR 5/6 yellowish brown, wet, very loose		
	SP		137.0	POORLY GRADED SAND, (SP) 10YR 6/2 light brownish gray / pale yellowish brown, fine to medium grained, wet, very loose, trace gravel		
	CL		137.3	LEAN CLAY, (CL) 10YR 6/1 gray, soft, medium plasticity		
140	SP		143.0	POORLY GRADED SAND, (SP) 10YR 7/3 very pale brown, fine to medium grained, wet, very loose		
	SP		144.0	POORLY GRADED SAND, (SP) 10YR 7/3 very pale brown, fine to medium grained, wet, very loose, Few 2" lenses of CL		
	SP		148.0	POORLY GRADED SAND, (SP) 10YR 7/3 very pale brown, fine to medium grained, wet, very loose		
	CL		148.3	LEAN CLAY, (CL) 10YR 6/1 gray, medium stiff, medium plasticity		
150	SP		150.0	POORLY GRADED SAND, (SP) 10YR 7/3 very pale brown, fine to medium grained, wet, very loose		
	SP		156.0	POORLY GRADED SAND, (SP) 10YR 7/2 light gray, fine to medium grained, wet, very loose		
160	SP			POORLY GRADED SAND, (SP) 5Y 5/1 gray, fine to medium grained, wet, loose, trace silt		



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-	SP			POORLY GRADED SAND, (SP) 5Y 5/1 gray, fine to medium grained, wet, loose, trace silt (continued)		<ul style="list-style-type: none">- Bentonite Chips- #20-40 Filter Sand- Sch 80 PVC 0.010 Slotted Screen
170	SP		169.0			
			170.0	POORLY GRADED SAND, (SP) 5Y 7/1 light gray, fine to medium grained, wet, very loose, trace silt		
	SP			POORLY GRADED SAND, (SP) 10YR 5/1 gray, fine to medium grained, wet, very loose		
180			180.0			
	SP		182.0	POORLY GRADED SAND, (SP) 10YR 7/6 yellow, fine to medium grained, wet, very loose		
	SP	183.0	POORLY GRADED SAND, (SP) 10YR 5/1 gray, fine to medium grained, wet, very loose			
	SP	184.0	POORLY GRADED SAND, (SP) 10YR 7/6 yellow, fine to medium grained, wet, very loose			

Bottom of borehole at 184.0 feet.