Well ID:MW-306 Total Depth (ft. bgs):84

PROJECT: SRI Phase 4
PROJECT NUMBER: 10058697
SITE LOCATION: _NE. of Bldg. 429
PROJECT MANAGER: _T. Holmes
LOGGED BY: C. Mokri

DATE STARTED: 9/13/19

DATE COMPLETED: 9/14/19

DRILLING CONTRACTOR: Cascade

DRILLER: T. Taylor

METHOD/RIG: Gus Pech Sonic

HOLE DIAMETER (IN): \_6 GROUND SURFACE ELEVATION (NAVD): <u>304.4</u>

DEPTH TO WATER (ft. btoc): 70.05 on 12/4/2019 BOREHOLE USE: Groundwater Monitoring Well

NOTES: PID measurement indicated where greater than 0. No water used during drilling. Well installed on 9/14, pad installed on 9/17, and well developed on 10/8.

o DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	LAYER DEPTH	MATERIAL DESCRIPTION	Environmental Data PID (ppm)		'ELL DIAGRAM ng Top Elev: 304.3 (fi	 (t)
				SILT, (ML) dry, stiff, non plastic, medium dry strength, trace fine sand			- Sch 40 PVC	_
	ML		6.0				Blank Casing	
	ML		9.0	SILT, (ML) 7.5YR 4/3 brown, moist, medium stiff, low plasticity				
<u>    10    </u> -    -	CL		14.0	LEAN CLAY, (CL) 7.5YR 6/3 light brown, medium stiff, medium plasticity, little silt				
	CL		19.0	LEAN CLAY, (CL) 7.5YR 6/4 light brown, medium stiff, medium plasticity, trace fine gravel				
	CL		24.0	LEAN CLAY, (CL) 7.5YR 6/4 light brown, moist, very stiff, medium plasticity				
	CL		24.0	LEAN CLAY, (CL) 7.5YR 5/4 brown, stiff, medium plasticity, little silt, trace fine sand				
	SC		27.0	CLAYEY SAND, (SC) 2.5YR 5/6 red, fine grained, soft, medium plasticity				
	SC		33.0	CLAYEY SAND, (SC) 2.5YR 5/6 red, fine to medium grained, soft, medium plasticity			- Cement-Bento Grout	onite
	SP		36.0	POORLY GRADED SAND, (SP) 10R 4/6 red / moderate reddish brown, fine to medium grained, moist, dense				
	SP		41.0	POORLY GRADED SAND, (SP) 2.5YR 6/8 light red, fine to medium grained, moist, very loose				
	SP		44.0	POORLY GRADED SAND, (SP) 7.5YR 7/6 reddish yellow, fine to medium grained, moist, very loose				
	SP		46.0	POORLY GRADED SAND, (SP) 7.5YR 7/6 reddish yellow, fine to medium grained, very loose, little gravel				
	SW		48.0	WELL GRADED SAND, (SW) 7.5YR 5/8 strong brown, very loose, and gravel				
	SP		49.0					
_ 50	SP		.]	POORLY GRADED SAND, (SP) 5YR 6/8 reddish yellow, moist, very loose			$\boxtimes$	
	CREATED BY:   C. Mokri   CHECKED BY:   T. Holmest     CREATED DATE:   10/15/19   Page: 1 of 2   CHECKED DATE:   2/28/20							

Page: 1 of 2

SP POORLY GRADED SAND, (SP) 5YR 6/8 reddish yellow, moist, very loose (continued)   SP 920   SP 920   SP 920   SW 960   WELL GRADED SAND, (SP) 5YR 5/4 reddish brown, fine to medium grained, moist, very loose, trace gravel   SW 960   SP 900RLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, trace gravel   SW 960   G0 900RLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, trace gravel   SP 900RLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, some gravel   SP 900RLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, some gravel   SP 900RLY GRADED SAND, (SP) 5YR 6/3 light reddish brown, fine to medium grained, wet,   POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained, trace 1   The gravel 900RLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1   SV 70 SP 900RLY GRADED SAND, (SV) 7.5YR 6/8 reddish yellow, fine to medium grained 1   SW 73.0 73.0 75/7 75/7 file reddish yellow, fine gravel 1   SW 79.0 WELL GRADED SAND, (SW) 7.5YR 7/2 pinkish gray, wet, very loose, little gravel -#10-20 Filter   SW <th>05 DEPTH (ft)</th> <th>U.S.C.S.</th> <th>GRAPHIC LOG</th> <th>LAYER DEPTH</th> <th>MATERIAL DESCRIPTION</th> <th>Environmental Data PID (ppm)</th> <th colspan="3">WELL DIAGRAM</th>	05 DEPTH (ft)	U.S.C.S.	GRAPHIC LOG	LAYER DEPTH	MATERIAL DESCRIPTION	Environmental Data PID (ppm)	WELL DIAGRAM		
SP 54.0 very loose, trace clay   SW 56.0 WELL GRADED SAND, (SW) 5YR 7/3 pink, very loose, trace gravel   B0 POORLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, trace gravel, trace clay 1   B1.0 POORLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, trace gravel 0.7   B1.0 POORLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, some gravel 0.7   SP POORLY GRADED SAND, (SP) 5YR 6/3 light reddish brown, fine to medium grained, wet, ery loose, little gravel 1   SP POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained, trace fine gravel 1   Fro 20 FLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1 SP   70 SP FooRLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1   70 SP Foo. WELL GRADED SAND, (SW) 7.5YR 7/6 reddish yellow, fine grained, moist, medium stiff, medium plasticity -   70 SP SW 76.0 WELL GRADED SAND, (SW) 7.5YR 7/2 pinkish gray, wet, very loose, little gravel -   80 GW WELL GRADED GRAVEL, (GW) 7.5YR 7/2 pinkish gray, wet, very loose, little fine gravel - -   80 GW 82.0 POORLY GRADED SAND, (SP) 7.5YR 7/3 pink, fine to medium grained,		SP		52.0					
SW \$6.0   SP POORLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, trace gravel, trace clay   60 61.0   SP 62.0   POORLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, some gravel 0.7   SP 64.0 very loose, little gravel   POORLY GRADED SAND, (SP) 5YR 6/3 light reddish brown, fine to medium grained, wet, very loose, fine gravel 1   SP 64.0 very loose, little gravel   POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained, trace fine gravel 1   70 SP 67.0 POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1   70 SP 73.0 CLAYEY SAND, (SC) 7.5YR 7/6 reddish yellow, fine grained, moist, medium stiff, medium plasticity -#10-20 Filter Sand   SW 76.0 WELL GRADED SAND, (SW) 7.5YR 6/8 reddish yellow, wet, very loose, little gravel -#10-20 Filter Sand   SW 79.0 WELL GRADED GRAVEL, (GW) 7.5YR 7/2 pinkish gray, wet, very loose, little gravel 1   80 GW 82.0 POORLY GRADED SAND, (SP) 7.5YR 7/3 pink, fine to medium grained, wet, very loose 1   80 GW 82.0 POORLY GRADED SAND, (SP) 7.5YR 7/3 pink, fine to medium grained, wet, very loose 1 </td <td></td> <td>SP</td> <td></td> <td>54.0</td> <td>very loose, trace clay</td> <td></td> <td></td>		SP		54.0	very loose, trace clay				
SP 60 1   60 SP 61.0   SP 62.0 POORLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, some gravel 0.7   SP 64.0 very loose, little gravel 0.7   SP 64.0 very loose, little gravel 1   POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish brown, fine to medium grained, wet, ery loose, little gravel 1 0.7   SP 67.0 POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1 0.7   SP 67.0 POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1 1   SP 67.0 POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1 1   SW 76.0 WELL GRADED SAND, (SW) 7.5YR 7/6 reddish yellow, wet, very loose, little gravel \$ \$ \$   SW 79.0 WELL GRADED SAND, (SW) 7.5YR 7/2 pinkish gray, wet, very loose, little fine gravel 1 \$ \$   SW 79.0 WELL GRADED GRAVEL, (GW) 7.5YR 7/3 pink, fine to medium grained, wet, very loose 1 1   SW 79.0 WELL GRADED GRAVEL, (GW) 7.5YR 7/3 pink, fine to medium grained, wet, very loose 1 1		SW		56.0	WELL GRADED SAND, (SW) 5YR 7/3 pink, very loose, trace gravel				
SP 62.0 POORLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, some gravel 0.7   SP POORLY GRADED SAND, (SP) 5YR 6/3 light reddish brown, fine to medium grained, wet, very loose, little gravel 1   SP POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained, trace fine gravel 1   FOR POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained, trace fine gravel 1   FOR POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1   FOR POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1   FOR POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1   FOR POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1   FOR POORLY GRADED SAND, (SC) 7.5YR 7/6 reddish yellow, fine grained, moist, medium filth medium plasticity -   SW WELL GRADED SAND, (SW) 7.5YR 7/2 pinkish gray, wet, very loose, little gravel - #10-20 Filter Sand   SN WELL GRADED GRAVEL, (GW) 7.5YR 7/3 pink, fine to medium grained, wet, very loose 1   SP POORLY GRADED SAND, (SP) 7.5YR 7/3 pink, fine to medium grained, wet, very loose 1		SP		61.0	POORLY GRADED SAND, (SP) 5YR 7/3 pink, very loose, trace gravel, trace clay				
SP 64.0 very loose, little gravel 1   SP POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained, trace fine gravel 1   - SP 67.0 POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained 1   - SP 73.0 POORLY GRADED SAND, (SC) 7.5YR 7/6 reddish yellow, fine grained, moist, medium stiff, medium plasticity 1 ************************************		SP				0.7			
SP POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained, trace fine gravel 1   67.0 POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained -   70 SP POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained -   70 SP 73.0 - -   - SC 77.4 73.5 CLAYEY SAND, (SC) 7.5YR 7/6 reddish yellow, fine grained, moist, medium stiff, medium plasticity -   - SW 76.0 WELL GRADED SAND, (SW) 7.5YR 6/8 reddish yellow, wet, very loose, little gravel -   - SW 79.0 WELL GRADED SAND, (SW) 7.5YR 7/2 pinkish gray, wet, very loose, little fine gravel -   - SW 79.0 WELL GRADED GRAVEL, (GW) 7.5YR 7/2 pinkish gray, wet, very loose 1   - SP POORLY GRADED GRAVEL, (GW) 7.5YR 7/3 pink, fine to medium grained, wet, very loose 1		SP		64.0					
70 SP   73.0 SP   9 SW   76.0 WELL GRADED SAND, (SW) 7.5YR 6/8 reddish yellow, wet, very loose, little gravel   80 WELL GRADED SAND, (SW) 7.5YR 7/2 pinkish gray, wet, very loose   80 WELL GRADED GRAVEL, (GW) 7.5YR 4/2 brown, wet, very loose   80 82.0   82.0 82.0   82.0 82.0   82.0 82.0   82.0 900RLY GRADED SAND, (SP) 7.5YR 7/3 pink, fine to medium grained, wet, very loose   1 1.6		SP			POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained, trace fine gravel				
SC 73.5 CLAYEY SAND, (SC) 7.5YR 7/6 reddish yellow, fine grained, moist, medium stiff, medium   SW 76.0 WELL GRADED SAND, (SW) 7.5YR 6/8 reddish yellow, wet, very loose, little gravel   WELL GRADED SAND, (SW) 7.5YR 7/2 pinkish gray, wet, very loose, little fine gravel -#10-20 Filter Sand   SW 79.0 WELL GRADED GRAVEL, (GW) 7.5YR 4/2 brown, wet, very loose   B0 WELL GRADED GRAVEL, (GW) 7.5YR 4/2 brown, wet, very loose - sch 40 PVC 0.010 Slotted Screen   SP POORLY GRADED SAND, (SP) 7.5YR 7/3 pink, fine to medium grained, wet, very loose 1	 70 	SP		70.0	POORLY GRADED SAND, (SP) 7.5YR 6/6 reddish yellow, fine to medium grained				
		SC	<i></i>			-			
SW WELL GRADED SAND, (SW) 7.5YR 7/2 pinkish gray, wet, very loose, little fine gravel Sand   80 WELL GRADED GRAVEL, (GW) 7.5YR 4/2 brown, wet, very loose Sch 40 PVC   0 WELL GRADED GRAVEL, (GW) 7.5YR 4/2 brown, wet, very loose 1   1 SP POORLY GRADED SAND, (SP) 7.5YR 7/3 pink, fine to medium grained, wet, very loose 1.6		SW		76.0			- #10-20 Filter		
80 GW WELL GRADED GRAVEL, (GW) 7.5YR 4/2 brown, wet, very loose 1   - - B2.0 POORLY GRADED SAND, (SP) 7.5YR 7/3 pink, fine to medium grained, wet, very loose 1		sw					Sand		
SP POORLY GRADED SAND, (SP) 7.5YR 7/3 pink, fine to medium grained, wet, very loose 1.6	80	GW			WELL GRADED GRAVEL, (GW) 7.5YR 4/2 brown, wet, very loose	1			
		SP		02.0	POORLY GRADED SAND, (SP) 7.5YR 7/3 pink, fine to medium grained, wet, very loose	1.6			

Bottom of borehole at 84.0 feet.