

Table XX. Lithologic Sieve Log for multiple-well monitoring site Santa Ysabel (SDSY) (12S/1W-34L2-4)

[Altitude of land surface, approximately 400 feet. Depth is in feet below land surface. Soil and rock color notation from Munsell Color (2000). Drilled by U.S. Geological Survey using hydraulic rotary, October 2010. Total depth drilled 355 feet. Screened intervals: 70-90, 190-210, and 280-340 feet]

Depth (ft)		Description
From	To	
0	19	Slightly gravelly sand ((g)S); fine to very coarse sand with granules; poorly to moderately sorted; angular to subangular; olive brown (2.5Y 4/3); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>minor igneous intrusive clasts (2-4mm)</i>
19	39	Slightly gravelly sand ((g)S); fine to very coarse sand with granules to large pebbles; poorly sorted; angular to subangular; dark olive brown (2.5Y 3/3); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>minor quartzite clasts (2-18mm)</i>
39	59	Slightly gravelly sand ((g)S); fine to very coarse sand with granules to small pebbles; sorted; angular to subangular; very dark grayish brown (2.5Y 4/2); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>trace wood fragments (<34mm)</i>
59	80	Gravelly sand (gS); fine to coarse sand with granules to medium pebbles and minor silt; very poorly sorted; angular to subangular; very dark grayish brown (2.5Y 3/2); <i>mafics (hornblende & biotite)</i>
80	100	Gravelly clayey silty sand (gmS); fine to coarse sand with silt, clay and granules to medium pebbles; very poorly sorted; angular to subangular; dark grayish brown (2.5Y 4/2); <i>minor mafics (hornblende & biotite)</i> ; <i>oxidized</i> ; <i>minor quartzite and basaltic andesite clasts(<14mm)</i>
100	120	Slightly gravelly clayey silty sand ((g)mS); very fine to medium sand with clay, silt and granules to small pebbles; very poorly sorted; angular to subangular; olive brown (2.5Y 4/3); <i>minor mafics (hornblende & biotite)</i> ; <i>oxidized</i>
120	140	Slightly gravelly sand ((g)S); very fine to coarse sand with granules to very large pebbles and trace silt; very poorly sorted; angular to subangular; very dark grayish brown (2.5Y 3/2); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>oxidized</i> ; <i>heavily weathered granite-granodiorite bedrock contact</i> ; <i>trace poikilitic quartz-granitoid clast (20mm) and siliceously cemented lithic arenite clast (35mm)</i>
140	160	Slightly gravelly sand ((g)S); medium to very coarse sand with granules and trace silt; moderately sorted; angular to subangular; dark grayish brown (2.5Y 4/2); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>oxidized</i> ; <i>heavily weathered granodiorite bedrock</i>
180	200	Slightly gravelly silty sand ((g)mS); fine to coarse sand with silt and granules to small pebbles; very poorly sorted; angular to subangular; very dark grayish brown (2.5Y 3/2); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>oxidized</i> ; <i>weathered granodiorite bedrock</i>

Table XX. Lithologic Sieve Log for multiple-well monitoring site Santa Ysabel (SDSY) (12S/1W-34L2-4)

Depth (ft)		Description
From	To	
200	220	Slightly gravelly silty sand ((g)mS); very fine to coarse sand with silt and granules to small pebbles; very poorly sorted; angular to subangular; very dark grayish brown (2.5Y 3/2); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>oxidized</i> ; <i>weathered granodiorite bedrock</i>
220	240	Silty sand (zS); fine to coarse sand with silt and trace granules; poorly sorted; angular to subangular; very dark grayish brown (2.5Y 3/2); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>oxidized</i> ; <i>weathered granite-granodiorite bedrock</i> ; <i>trace rose quart</i>
240	260	Sand (S); fine to coarse sand with minor very coarse sand; well sorted very angular to angular; very dark gray (2.5Y 3/1); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>granodiorite bedrock</i>
260	280	Sand (S); fine to coarse sand; well sorted; very angular to angular; very dark gray (2.5Y 3/1); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>trace limonite</i> ; <i>granodiorite bedrock</i>
280	300	Sand (S); fine to coarse sand with trace very coarse sand; well sorted; very angular to angular; black (2.5Y 2.5/1); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>trace limonite</i> ; <i>granodiorite bedrock</i>
300	320	Sand (S); fine to coarse sand with trace granules to medium pebbles; well sorted; very angular to angular; black (2.5Y 2.5/1); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>trace limonite</i> ; <i>granodiorite bedrock</i>
320	340	Sand (S); fine to coarse sand with trace very coarse sand; well sorted; very angular to angular; black (2.5Y 2.5/1); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>granite-granodiorite bedrock</i>
340	350	Sand (S); fine to coarse sand with trace very coarse sand; well sorted; very angular to angular; dark gray (2.5Y 4/1); <i>feldspathic</i> ; <i>mafics (hornblende & biotite)</i> ; <i>trace limonite</i> ; <i>granite-granodiorite bedrock</i>
350	355	No sample collected; cored interval