

Table XX. Lithologic Sieve Log for multiple-well monitoring site Temecula Creek (TMTC) (8S/2W-15F1-5S)

[Altitude of land surface, approximately 1114 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, March 2013. Total depth drilled 1720 feet. Screened intervals: 80-100, 240-260, 610-630, 1115-1135, and 1610-1650 feet]

Depth (ft)		Description
From	To	
0	20	Sand (S); very fine to very coarse sand with trace granules; poorly to moderately sorted; angular to subangular; light olive brown (2.5Y 5/3); <i>slightly calcareous; micaceous; minor iron staining</i>
20	40	Slightly gravelly clayey silty sand ((g)mS); very fine to very coarse sand with silt, clay, and granules to small pebbles; very poorly sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous; trace friable iron-rich (hematitic) aggregates (0.5-4mm)</i>
40	45	<i>Cored interval; no sieve sample collected</i>
45	60	Silty clayey sand (mS); very fine to very coarse sand with clay, silt, and trace granules; very poorly sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
60	80	Clayey silty sand (mS); very fine to medium sand with silt, clay, minor coarse to very coarse sand, and trace granules to small pebbles; poorly to moderately sorted; angular to subrounded; olive gray (5Y 4/2); <i>calcareous; micaceous; mafics</i>
80	100	Sand (S); very fine to medium sand with trace granules to small pebbles; well sorted; very angular to subangular; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
100	120	Silty sand (zS); very fine to medium sand with silt, minor clay, and trace granules to small pebbles; moderately to well sorted; angular to subangular; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
120	140	Sand (S); very fine to medium sand with trace very coarse sand and granules; well sorted; very angular to angular; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
140	160	Sand (S); very fine to medium sand with minor silt and trace very coarse sand; moderately to well sorted; very angular to angular; light olive brown (2.5Y 5/3); <i>calcareous; micaceous</i>
160	180	Sand (S); very fine to medium sand with minor silt and trace very coarse sand; moderately to well sorted; very angular to angular; light olive brown (2.5Y 5/3); <i>calcareous; micaceous</i>
180	200	Slightly gravelly sand ((g)S); very fine to medium sand with minor silt and granules to small pebbles; moderately sorted; very angular to subangular; light olive brown (2.5Y 5/3); <i>calcareous; micaceous</i>
200	220	Silty sand (zS); very fine to medium sand with silt, minor clay, and trace granules; moderately sorted; angular to subangular; light olive brown (2.5Y 5/3); <i>calcareous; micaceous</i>
220	240	Clayey silty sand (mS); very fine to coarse sand with silt, clay, and trace granules; poorly sorted; very angular to subangular; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>

Table XX. Lithologic Sieve Log for multiple-well monitoring site Temecula Creek (TMTC) (8S/2W-15F1-5S)

Depth (ft)		Description
From	To	
240	245	<i>Cored interval; no sieve sample collected</i>
245	260	Silty sand (zS); very fine to medium sand with silt, minor coarse to very coarse sand, and trace granules; poorly to moderately sorted; very angular to subangular; light olive brown (2.5Y 5/3); <i>calcareous; micaceous</i>
260	280	Silty sand (zS); very fine to medium sand with silt and minor coarse to very coarse sand; poorly to moderately sorted; very angular to subangular; light olive brown (2.5Y 5/3); <i>calcareous; micaceous</i>
280	300	Sandy clayey silt (sM); silt with clay, very fine to coarse sand, and minor very coarse sand; very poorly to poorly sorted; grayish brown (2.5Y 5/2); <i>slightly calcareous; very micaceous</i>
300	320	Sandy silty clay (sM); clay with silt, very fine to medium sand, and trace granules; poorly to moderately sorted; grayish brown (2.5Y 5/2); <i>very micaceous</i>
320	340	Sandy silty clay (sM); clay with silt, very fine to medium sand, and minor coarse to very coarse sand; poorly sorted; grayish brown (2.5Y 5/2); <i>micaceous</i>
340	360	Silty clayey sand (mS); very fine to coarse sand with clay, silt, and trace granules; poorly sorted; angular to subrounded; grayish brown (2.5Y 5/2); <i>micaceous</i>
360	380	Silty clayey sand (mS); very fine to coarse sand with clay, silt, and trace granules; poorly sorted; angular to subrounded; grayish brown (2.5Y 5/2); <i>micaceous</i>
380	400	Clayey sandy gravel (msG); granules to small pebbles with very fine to very coarse sand and clay; very poorly sorted; subangular to subrounded; olive gray (5Y 5/2); <i>slightly calcareous; micaceous</i>
400	420	Silty sand (zS); very fine to coarse sand with silt, minor clay, and very coarse sand; poorly to moderately sorted; very angular to subangular; olive gray (5Y 5/2); <i>micaceous</i>
420	440	Silty clayey sand (mS); very fine to medium sand with clay, silt, minor coarse sand, and trace granules to small pebbles; poorly to moderately sorted; very angular to subangular; light olive brown (2.5Y 5/3); <i>slightly calcareous; micaceous</i>
440	460	Clayey silty sand (mS); very fine to medium sand with silt, clay, trace coarse sand, and granules; moderately sorted; angular to subangular; grayish brown (2.5Y 5/2); <i>slightly calcareous; micaceous</i>
460	480	Clayey silty sand (mS); very fine to medium sand with silt, clay, and minor coarse sand; poorly to moderately sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
480	500	Silty sandy clay (sM); clay with very fine to coarse sand, silt, and trace granules to small pebbles; poorly sorted; light olive gray (5Y 6/2); <i>calcareous; micaceous; trace caliche</i>
500	520	Clayey silty sand (mS); very fine to medium sand with silt, clay, and trace coarse to very coarse sand; moderately sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>

Table XX. Lithologic Sieve Log for multiple-well monitoring site Temecula Creek (TMTC) (8S/2W-15F1-5S)

Depth (ft)		Description
From	To	
520	540	Silty sand (zS); very fine to medium sand with silt, minor clay, and coarse sand; moderately sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
540	560	Silty sand (zS); very fine to medium sand with silt, minor clay, coarse sand, and trace granules; moderately sorted; angular to subangular; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
560	580	Clayey silty sand (mS); very fine to medium sand with silt, clay, and trace granules; poorly to moderately sorted; angular to subrounded; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
580	600	Sandy silty clay (sM); clay with silt, very fine to medium sand, minor coarse to very coarse sand, and trace granules; poorly sorted; olive gray (5Y 4/2); <i>calcareous; micaceous</i>
600	620	Clayey silty sand (mS); very fine to medium sand with silt, clay, minor coarse sand, and trace granules; poorly to moderately sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
620	625	<i>Cored interval; no sieve sample collected</i>
625	640	Clayey silty sand (mS); very fine to medium sand with silt, clay, minor coarse sand, and trace granules to small pebbles; poorly to moderately sorted; angular to subangular; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
640	660	Silty sandy clay (sM); clay with very fine to coarse sand, silt, and trace granules to small pebbles; poorly sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
660	680	Silty sand (zS); very fine to fine sand with silt and trace granules; well sorted; very angular to angular; grayish brown (2.5Y 5/2); <i>calcareous; micaceous</i>
680	700	Clayey silty sand (mS); very fine to coarse sand with silt, clay, and trace granules; poorly sorted; very angular to subangular; olive gray (5Y 5/2); <i>very calcareous; micaceous</i>
700	720	Silty sand (zS); very fine to fine sand with silt and trace granules to small pebbles; well sorted; very angular to angular; olive gray (5Y 5/2); <i>very calcareous; micaceous</i>
720	740	Silty sand (zS); very fine to fine sand with silt, minor clay, and trace very coarse sand; well sorted; very angular to angular; grayish brown (2.5Y 5/2); <i>very calcareous; micaceous</i>
740	760	Silty sand (zS); very fine to medium sand with silt, trace clay, and coarse sand; moderately to well sorted; angular to subangular; grayish brown (2.5Y 5/2); <i>very calcareous; micaceous</i>
760	780	Silty sand (zS); very fine to medium sand with silt, trace clay, and coarse sand; moderately to well sorted; very angular to subangular; grayish brown (2.5Y 5/2); <i>very calcareous; micaceous</i>
780	800	Clayey silty sand (mS); very fine to medium sand with silt, clay, and minor coarse to very coarse sand; poorly to moderately sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>

Table XX. Lithologic Sieve Log for multiple-well monitoring site Temecula Creek (TMTC) (8S/2W-15F1-5S)

Depth (ft)		Description
From	To	
800	820	Clayey silty sand (mS); very fine to medium sand with silt, clay, minor coarse to very coarse sand, and trace granules; poorly to moderately sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
820	840	Silty sand (zS); very fine to medium sand with silt, minor clay, and trace coarse to very coarse sand; moderately sorted; very angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
840	860	Clayey silty sand (mS); very fine to fine sand with silt, clay, and minor coarse to very coarse sand; moderately to well sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
860	880	Clayey silty sand (mS); very fine to medium sand with silt, clay, and minor coarse to very coarse sand; moderately sorted; subangular to subrounded; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
880	885	<i>Cored interval; no sieve sample collected</i>
885	900	Clayey silty sand (mS); very fine to coarse sand with silt, clay, minor very coarse sand, and trace granules to small pebbles; very poorly to poorly sorted; angular to subrounded; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
900	920	Silty clayey sand (mS); fine to coarse sand with clay, silt, minor very coarse sand, and trace granules; very poorly to poorly sorted; subangular to subrounded; olive gray (5Y 4/2); <i>calcareous; micaceous</i>
920	940	Slightly gravelly sandy silty clay ((g)sM); clay with silt, fine to very coarse sand, and granules to small pebbles; very poorly sorted; olive gray (5Y 5/2); <i>calcareous; very micaceous</i>
940	960	Sandy silty clay (sM); clay with silt, very fine to coarse sand, minor very coarse sand, and trace granules; very poorly to poorly sorted; olive gray (5Y 5/2); <i>calcareous; very micaceous</i>
960	980	Silty sand (zS); very fine to very coarse sand with silt and minor clay; very poorly to poorly sorted; subangular to rounded; olive gray (5Y 5/2); <i>slightly calcareous; micaceous</i>
980	1000	Slightly gravelly sandy silty clay ((g)sM); clay with silt, very fine to very coarse sand, and granules to small pebbles; very poorly sorted; olive gray (5Y 5/2); <i>slightly calcareous; micaceous</i>
1000	1020	Slightly gravelly sandy clayey silt ((g)sM); silt with clay, very fine to coarse sand, and granules to small pebbles; very poorly sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1020	1040	Sandy silty clay (sM); clay with silt, very fine to coarse sand, and trace granules; poorly sorted; olive gray (5Y 5/2); <i>slightly calcareous; micaceous</i>
1040	1060	Sandy silty clay (sM); clay with silt, very fine to coarse sand, and trace granules; poorly sorted; olive gray (5Y 5/2); <i>calcareous; micaceous; trace garnets</i>
1060	1080	Sandy silty clay (sM); clay with silt, very fine to medium sand, minor coarse to very coarse sand, and trace granules to small pebbles; poorly to moderately sorted; olive gray (5Y 4/2); <i>calcareous; micaceous</i>

Table XX. Lithologic Sieve Log for multiple-well monitoring site Temecula Creek (TMTC) (8S/2W-15F1-5S)

Depth (ft)		Description
From	To	
1080	1100	Clayey silty sand (mS); very fine to coarse sand with silt, clay, minor very coarse sand, and trace granules; very poorly to poorly sorted; subangular to rounded; olive gray (5Y 4/2); <i>very calcareous; micaceous (trace biotite books 1-6mm); trace garnets</i>
1100	1120	Silty sandy clay (sM); clay with very fine to coarse sand, silt, minor very coarse sand, and trace granules; very poorly to poorly sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1120	1140	Slightly gravelly silty sandy clay ((g)sM); clay with very fine to very coarse sand, silt, and granules; very poorly sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1140	1160	Silty clayey sand (mS); fine to very coarse sand with clay, silt, and trace granules; very poorly sorted; subrounded to rounded; olive gray (5Y 4/2); <i>calcareous; micaceous</i>
1160	1160.5	<i>Cored interval; no sieve sample collected</i>
1160.5	1180	Silty sandy clay (sM); clay with very fine to coarse sand, silt, minor very coarse sand, and trace granules; very poorly to poorly sorted; olive gray (5Y 5/2); <i>slightly calcareous; micaceous</i>
1180	1200	Silty clayey sand (mS); very fine to coarse sand with clay, silt, and minor very coarse sand; very poorly to poorly sorted; subangular to rounded; olive gray (5Y 5/2); <i>slightly calcareous; micaceous</i>
1200	1220	Silty sandy clay (sM); clay with very fine to very coarse sand, silt, and trace granules to small pebbles; very poorly sorted; olive gray (5Y 4/2); <i>calcareous; micaceous</i>
1220	1240	Silty sandy clay (sM); clay with very fine to very coarse sand, silt, and trace granules; very poorly sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1240	1260	Clayey silty sand (mS); fine to very coarse sand with silt, clay, and trace granules to small pebbles; very poorly sorted; subangular to rounded; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1260	1280	Silty sandy clay (sM); clay with fine to coarse sand, silt, minor very coarse sand, and trace granules; very poorly to poorly sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1280	1300	Silty sandy clay (sM); clay with fine to coarse sand, silt, minor very coarse sand, and trace granules; very poorly to poorly sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1300	1320	Silty clayey sand (mS); fine to very coarse sand with clay, silt, minor very coarse sand, and trace granules to small pebbles; very poorly sorted; angular to subrounded; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1320	1340	Sandy clayey silt (sM); silt with clay, very fine to medium sand, and minor coarse to very coarse sand; poorly to moderately sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1340	1360	Clayey silty sand (mS); fine to very coarse sand with silt and clay; very poorly sorted; very angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>

Table XX. Lithologic Sieve Log for multiple-well monitoring site Temecula Creek (TMTC) (8S/2W-15F1-5S)

Depth (ft)		Description
From	To	
1360	1380	Clayey sand (cS); fine to coarse sand with clay, minor very coarse sand, granules; poorly sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1380	1400	Clayey sand (cS); very fine to coarse sand with clay and trace granules to small pebbles; poorly sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1400	1420	Slightly gravelly clayey sand ((g)mS); very fine to very coarse sand with clay and granules to small pebbles; very poorly sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1420	1440	Clayey sand (cS); very fine to coarse sand with clay and minor very coarse sand; very poorly to poorly sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1440	1460	Silty sandy clay (sM); clay with very fine to coarse sand, silt, and minor very coarse sand; very poorly to poorly sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1460	1480	Silty sandy clay (sM); clay with very fine to coarse sand and silt; poorly sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1480	1500	Silty sandy clay (sM); clay with very fine to coarse sand, silt, and minor very coarse sand; very poorly to poorly sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1500	1520	Clayey silty sand (mS); very fine to coarse sand with silt, clay, and trace granules to medium pebbles; poorly sorted; angular to subangular; olive gray (5Y 5/2); <i>calcareous; minor mica</i>
1520	1540	Sandy silty clay (sM); clay with silt, very fine to coarse sand, and minor very coarse sand; very poorly to poorly sorted; olive gray (5Y 5/2); <i>calcareous; minor mica</i>
1540	1560	Silty sand (zS); very fine to very coarse sand with silt and trace granules; very poorly sorted; angular to subrounded; olive gray (5Y 5/2); <i>calcareous; trace mica</i>
1560	1580	Sandy clayey silt (sM); silt with clay, very fine to medium sand, and trace coarse to very coarse sand; poorly to moderately sorted; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1580	1600	Clayey silty sand (mS); very fine to medium sand with silt, clay, and minor coarse to very coarse sand; poorly to moderately sorted; angular to subangular; olive gray (5Y 4/2); <i>calcareous; micaceous</i>
1600	1620	Silty sand (zS); very fine to very coarse sand with silt and trace granules; poorly to moderately sorted; subangular to rounded; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1620	1640	Clayey silty sand (mS); fine to medium sand with silt, clay, and minor coarse to very coarse sand, poorly to moderately sorted; angular to subrounded; olive gray (5Y 5/2); <i>calcareous; micaceous</i>
1640	1660	Silty sand (zS); fine to very coarse sand with silt, trace granules, and clay; poorly to moderately sorted; angular to subrounded; olive gray (5Y 4/2); <i>calcareous; minor mica (biotite, muscovite)</i>

Table XX. Lithologic Sieve Log for multiple-well monitoring site Temecula Creek (TMTC) (8S/2W-15F1-5S)

Depth (ft)		Description
From	To	
1660	1680	Slightly gravelly silty sand ((g)mS); fine to very coarse sand with silt, minor clay, and granules to small pebbles; very poorly sorted; subangular to rounded; olive gray (5Y 5/2); <i>calcareous</i> ; <i>minor mica</i>
1680	1700	Slightly gravelly silty sandy ((g)mS); fine to very coarse sand with silt, minor granules to small pebbles, and clay; very poorly sorted; subangular to rounded; olive gray (5Y 5/2); <i>calcareous</i> ; <i>minor mica</i>
1700	1720	Slightly gravelly clayey silty sand ((g)mS); fine to very coarse sand with silt, clay, and granules to small; very poorly sorted; subangular to subrounded; olive gray (5Y 5/2); <i>calcareous</i> ; <i>micaceous</i>

PROVISIONAL