

**Table XX.** Lithologic SIEVE log for multiple-well monitoring site SDBP (17S/03W-01K01-05S), near San Diego, San Diego County, California, February 2008

[Location shown in figure XX. Altitude of land surface, approximately 109 feet above vertical datum. Depth is in feet below land surface. Soil and rock color notation from Munsell Color (1994). Drilled by U.S. Geological Survey using hydraulic rotary to 1,600 feet, March 2008. Total depth drilled 1,501ft. Well casing to 1,490 ft. Screened interval: 1,470-1,490, 1,020-1,040, 560-580, 220-240, and 100-120ft.]

Depth (ft)		Description
From	To	
0	20	Slightly gravelly sand ((g)S); fine to medium with some coarse sand, gravel <20 mm; moderately sorted; subangular to subrounded
20	40	Sand (S); fine to medium with minor very fine sand; well sorted; subangular to subrounded
40	60	Sand (S); very fine to fine with occasional medium to coarse sand and gravel; well sorted; subangular to subrounded with rounded gravel
60	80	Sand (S); very fine to fine with occasional medium to coarse and gravel; well sorted; subangular to subrounded with subrounded to rounded gravel
80	100	Sand (S); very fine to fine with some minor medium sand; well sorted; subangular to subrounded
100	120	Sand (S); very fine to fine with some minor medium sand; well sorted; subangular to subrounded
120	140	Sand (S); fine to medium with some very fine to coarse sand; moderately sorted; subangular to subrounded; fossil fragments of bivalves and gastropods; marine deposit
140	160	Slightly gravelly sand ((g)S); very fine sand with minor fine to coarse sand grain, silt and gravel <8mm; poorly sorted; subangular to subrounded sand, subrounded to rounded gravel; fragments of fossil bivalve shells; marine deposit
160	180	Silty sand (zS); very fine to fine sand with minor silt; well sorted; subangular to subrounded; fragments of fossil bivalve shells; marine deposit
180	200	Sand (S); very fine to fine; well sorted; subangular to subrounded; fragments of fossil bivalve shells; marine deposit
200	220	Sand (S); very fine to fine with occasional medium to coarse sand; moderately sorted; subangular to subrounded; fragments of fossil bivalve shells; marine deposit
220	240	Sand (S); very fine to fine with minor medium to coarse sand; moderately sorted; subangular to subrounded
240	260	Sand (S); very fine; well sorted; subangular to subrounded; occasional fragments of fossil bivalve shells; marine deposit

**Table XX.** Lithologic SIEVE log for multiple-well monitoring site SDBP (17S/03W-01K01-05S), near San Diego, San Diego County, California, February 2008—Continued

<b>Depth (ft)</b>		<b>Description</b>
<b>From</b>	<b>To</b>	
260	280	Silty sand (zS); very fine sand with some silt; well sorted; subangular to subrounded; fragments of fossil bivalve shells; marine deposit
280	300	Silty sand (zS); very fine sand with some silt; well sorted; subangular to subrounded; occasional fragment of fossil bivalve shells; marine deposit
300	320	Silty sand (zS); very fine sand with some silt; well sorted; subangular to subrounded; marine deposit
320	340	Silty sand (zS); very fine sand with some silt; well sorted; subangular to subrounded; marine deposit
340	360	Silty sand (zS); very fine sand with some silt; well sorted; subangular to subrounded; marine deposit
360	380	Silty sand (zS); very fine sand with some silt; well sorted; subangular to subrounded; marine deposit
380	400	Sandy silt (sZ); silt with some very fine sand; well sorted; fragments of fossil bivalve shells; marine deposit
400	420	Silty clay (M); clay with silt; well sorted; fragments of fossil bivalve shells; marine deposit
420	440	Sandy silt (sZ); silt with some very fine sand; well sorted; marine deposit
440	460	Sandy silt (sZ); silt with some very fine sand; well sorted; subangular to subrounded sand; marine deposit
460	480	Silty sand (zS); sand with some silt; well sorted; subangular to subrounded; fragments of fossil bivalve shells; marine deposit
480	500	Silty sand (zS); sand with some silt; well sorted; subangular to subrounded; fragments of fossil bivalve shells and gastropods; marine deposit
500	520	Silty clay (M); clay with some silt, minor sand; well sorted; fragments of bivalve shells; marine deposit
520	540	Sandy silty clay (sM); clay with silt and some sand; moderately sorted; subangular to subrounded sand; fossil fragments of bivalve shells; marine deposit
540	560	Sandy silt (sZ); silt with some sand; well sorted; subangular to subrounded; fossil fragments of bivalve shells; marine deposit

**Table XX.** Lithologic SIEVE log for multiple-well monitoring site SDBP (17S/03W-01K01-05S), near San Diego, San Diego County, California, February 2008—Continued

Depth (ft)		Description
From	To	
560	580	Sand (S); fine to coarse; moderately sorted; subangular to subrounded; fossil fragments of bivalve shells; marine deposit
580	600	Sand (S); fine to medium with minor coarse to very coarse sand; poorly sorted; subangular to subrounded; fossil fragments of bivalve shells; marine deposit
600	620	Sand (S); fine to medium with some coarse sand; moderately sorted; subangular to subrounded; fossil shell fragments; marine deposit
620	640	Clayey sand (cS); fine to medium with some coarse to very coarse sand and minor clay; poorly sorted; subangular to subrounded; fossil shell fragments; marine deposit
640	660	Silty sand (zS); fine to medium with some coarse sand and minor silt; moderately sorted; subangular to subrounded; marine deposit
660	680	Silty sand (zS); very fine to medium sand with some silt; moderately sorted; subangular to subrounded; marine deposit
680	700	Clayey sand (cS); very fine to fine sand with minor medium sand and minor clay; poorly sorted; subangular to subrounded; possible marine deposit
700	720	Clayey sand (cS); very fine to medium sand with minor clay; moderately sorted; subangular to subrounded; possible marine deposit
720	740	Clayey sand (cS); very fine to fine with some minor medium to coarse sand and minor clay; poorly sorted; subangular to subrounded; possible marine deposit
740	760	Clayey sand (cS); very fine to fine with minor medium to coarse sand and minor clay; poorly sorted; subangular to subrounded
760	780	Sand (S); fine to medium with occasional coarse sand; well sorted; subangular to subrounded
780	800	Sand (S); fine to medium with occasional coarse sand grain; well sorted; subangular to subrounded
800	820	Sand (S); fine to medium with minor very fine sand; moderately sorted; subangular to subrounded
820	840	Sand (S); fine to medium with minor very fine sand; moderately sorted; subangular to subrounded

**Table XX.** Lithologic SIEVE log for multiple-well monitoring site SDBP (17S/03W-01K01-05S), near San Diego, San Diego County, California, February 2008—Continued

Depth (ft)		Description
From	To	
840	860	Clayey sand (cS); very fine to fine sand with some clay; moderately sorted; subangular to subrounded
860	880	Silty clay (M); clay with some silt and minor very fine sand present; moderately sorted
880	900	Clayey sand (cS); fine to medium sand with some very fine sand and clay; moderately sorted; subangular to subrounded
900	920	Silty clay (M); clay with some silt; well sorted
920	940	Sandy silty clay (sM); clay with some silt and minor very fine to fine sand; poorly sorted
940	960	Sand (S); fine with very fine to medium sand and occasional coarse sand grain; moderately sorted; subangular to subrounded
960	980	Slightly gravelly sand ((g)S); fine to medium with occasional coarse sand grain and gravel <8 mm in diameter; poorly sorted; subangular to subrounded with angular to subrounded gravel
980	1000	Sand (S); fine to medium with some very fine to coarse sand; moderately sorted; subangular to subrounded
1000	1020	Sand (S); fine to medium with minor coarse sand; moderately sorted; subangular to subrounded
1020	1040	Sand (S); fine to coarse; moderately sorted; subangular to subrounded
1040	1060	Sand (S); fine to medium with some coarse sand; moderately sorted; subangular to subrounded
1060	1080	Sand (S); fine to medium with some coarse to very coarse sand; moderately sorted; subangular to subrounded
1080	1100	Slightly gravelly sand ((g)S); fine to medium with some very fine to very coarse sand and gravel <5mm in diameter; poorly sorted; angular to subrounded sand and gravel
1100	1120	Slightly gravelly sand ((g)S); fine to medium with some very fine to very coarse sand and gravel <6mm in diameter; poorly sorted; subangular to subrounded with angular to subrounded gravel
1120	1140	Sand (S); fine to medium with some very fine to coarse sand; moderately sorted; subangular to subrounded

**Table XX.** Lithologic SIEVE log for multiple-well monitoring site SDBP (17S/03W-01K01-05S), near San Diego, San Diego County, California, February 2008—Continued

<b>Depth (ft)</b>		<b>Description</b>
<b>From</b>	<b>To</b>	
1140	1160	Slightly gravelly sand ((g)S); fine to medium with some coarse sand, gravel <10mm in diameter; poorly sorted; subangular to subrounded
1160	1180	Gravelly sand (gS); fine to coarse with some very coarse sand and gravel <10mm in diameter and minor clay; poorly sorted; subangular to subrounded sand with angular to subrounded gravel
1180	1200	Slightly gravelly sand ((g)S); fine to medium with some coarse sand and gravel <10mm in diameter and minor clay; poorly sorted; subangular to subrounded
1200	1220	Sand (S); fine to medium; well sorted; subangular to subrounded
1220	1240	Sand (S); fine to medium; well sorted; subangular to subrounded
1240	1260	Sand (S); very fine to fine with minor medium sand; well sorted; subangular to subrounded
1260	1280	Sand (S); fine with some very fine to medium sand; well sorted; subangular to subrounded
1280	1300	Silty sand (zS); very fine to fine sand with some silt; moderately sorted; subangular to subrounded
1300	1320	Silty sand (zS); very fine to fine sand with minor medium to coarse sand and silt; poorly sorted; subangular to subrounded
1320	1340	Sand (S); very fine to fine; well sorted; subangular to subrounded
1340	1360	Silty sand (zS); very fine with minor fine to coarse sand grains, silt and minor clay; poorly sorted; subangular to subrounded; occasional fossil fragments of shells; marine deposit
1360	1380	Clayey silty sand (mS); very fine to fine sand with some silt and clay; poorly sorted; subangular to subrounded; occasional fossil shell fragments; marine deposit
1380	1400	Sand (S); very fine to fine sand with some minor silt; well sorted; subangular to subrounded; marine deposit
1400	1420	Sand (S); very fine to fine with some minor silt; well sorted; subangular to subrounded; marine deposit
1420	1440	Sand (S); very fine to fine with some minor silt; well sorted; subangular to subrounded; marine deposit

**Table XX.** Lithologic SIEVE log for multiple-well monitoring site SDBP (17S/03W-01K01-05S), near San Diego, San Diego County, California, February 2008—Continued

<b>Depth (ft)</b>		<b>Description</b>
<b>From</b>	<b>To</b>	
1440	1460	Sand (S); very fine to fine with some medium sand and minor silt; moderately sorted; subangular to subrounded; marine deposit
1460	1480	Sand (S); fine with some very fine to medium sand; moderately sorted; subangular to subrounded; marine deposit
1480	1501	Sand (S); very fine to fine with some medium sand and minor silt; moderately sorted; subangular to subrounded; marine deposit