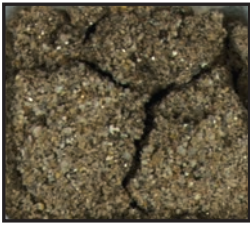
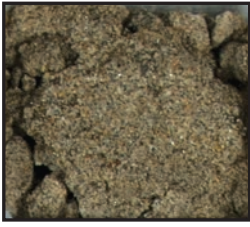
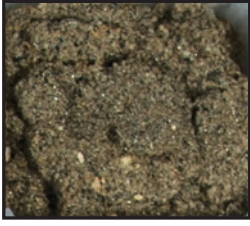
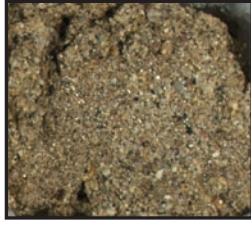
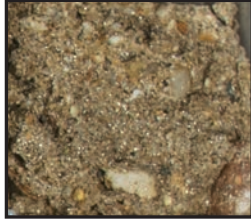
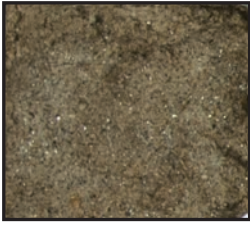
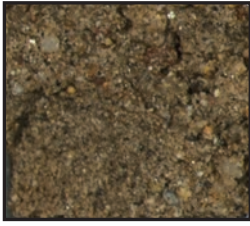
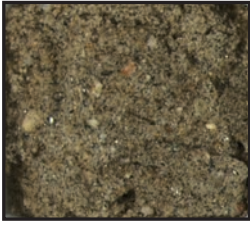
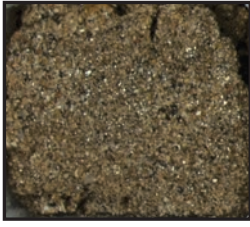
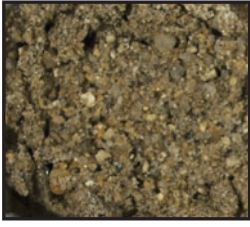
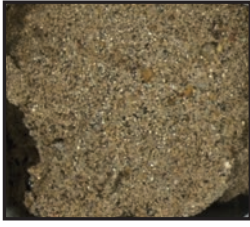

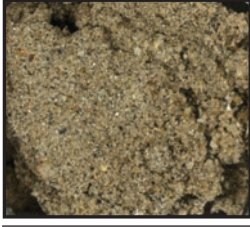

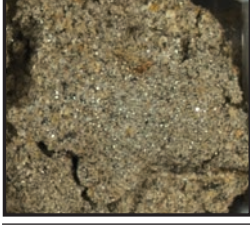

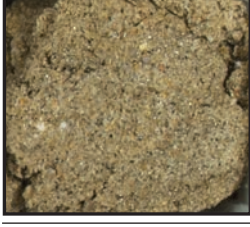



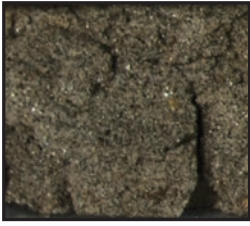
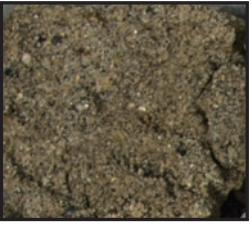

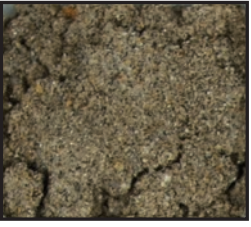

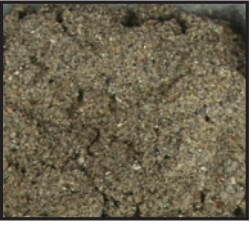
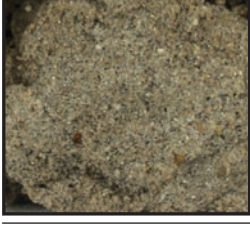
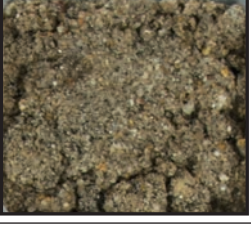






Depth interval (feet) and description	Depth interval (feet) and description	Depth interval (feet) and description	Depth interval (feet) and description
	<p>0–17: No sieve sample collected.</p> <p>17–37: Sand (S); fine to very fine sand; very well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2).</p>		<p>157–177: Gravelly sand (gS); fine to medium sand with minor coarse to very coarse sand and gravel &lt;12 mm; poorly sorted; subangular to rounded; olive brown (2.5Y 4/3).</p>
	<p>37–57: Sand (S); fine to very fine sand; well sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p>		<p>177–197: Sand (S); fine to medium sand with minor silt and clay; well to moderately sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p>
	<p>57–67: Sand (S); fine to medium sand with minor very fine to very coarse sand and trace gravel &lt;4 mm; poorly sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p> <p>67–77: No sieve sample collected.</p>		<p>197–217: Sand (S); medium to coarse sand with minor fine to very coarse sand and trace gravel &lt;4 mm; poorly sorted; subangular to rounded; brown (10YR 4/3).</p>
	<p>77–90: Sand (S); fine to medium sand with minor very fine sand; moderately sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p> <p>90–97: No sieve sample collected.</p>		<p>217–237: Gravelly sand (gS); very fine to very coarse sand, gravel &lt;11 mm and minor silt; poorly sorted; subangular to rounded; brown (10YR 4/3).</p>
	<p>97–117: Slightly gravelly silty sand ((g)mS); very fine to fine sand, silt, and minor gravel &lt;11 mm; poorly sorted; subangular to rounded; olive brown (2.5Y 4/3).</p>		<p>237–257: Sand (S); fine to medium sand; well sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p>
	<p>117–137: Sand (S); fine to medium sand with minor very fine to very coarse sand and gravel &lt;4 mm; poorly sorted; subangular to rounded; olive brown (2.5Y 4/3).</p>		<p>257–277: Slightly gravelly sand ((g)S); fine to medium sand with minor very fine to very coarse sand and gravel &lt;12 mm; poorly sorted; subangular to rounded; olive brown (2.5Y 4/3).</p>
	<p>137–157: Sand (S); fine to medium sand; well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2).</p>		<p>277–297: Slightly gravelly sand ((g)S); fine to medium sand with minor very fine to very coarse sand and gravel &lt;14 mm; poorly sorted; subangular to rounded; brown (10YR 4/3).</p>

**Figure 18K.** Lithologic descriptions and photographs of **sieve** drill cuttings collected from the borehole at 16 USGS multiple-depth, monitoring-well sites in San Diego County, California, 1995, 2003–2017: (A) SDCD; (B) SDSY; (C) SDLH; (D) SDAQ; (E) SDPC; (F) SDBP; (G) SDHF; (H) SDEP; (I) SDNB; (J) SDSW; (K) **SDMC**; (L) SLDL; (M) SDCC; (N) SDOR; (O) SDOT; and (P) SDBW.

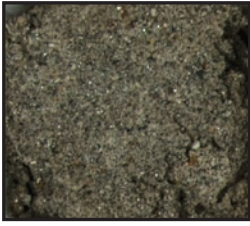
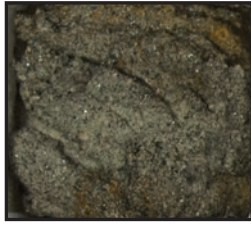
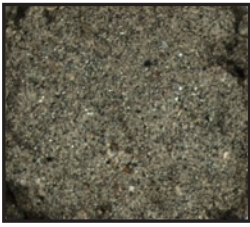
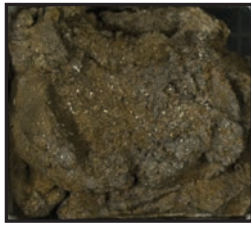

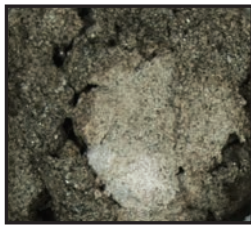
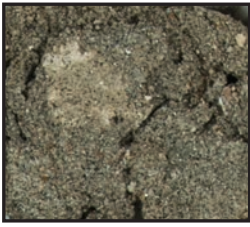
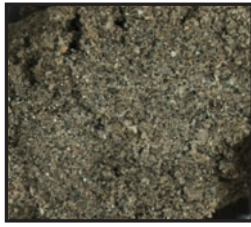
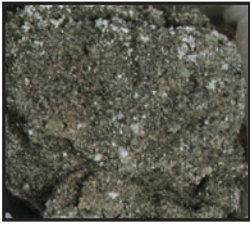
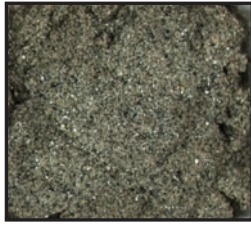
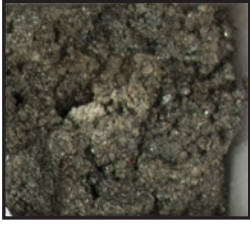
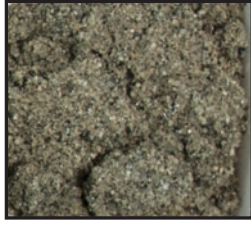
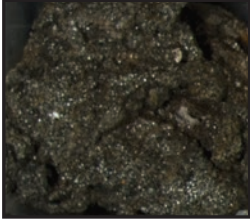
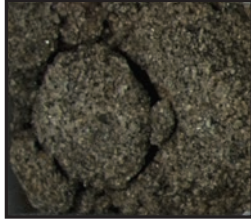
Depth interval (feet) and description	Depth interval (feet) and description		
	<p>297–317: Sand (S); very fine to fine sand; well sorted; subangular to subrounded; light olive brown (2.5Y 5/3).</p>		<p>440–460: Sand (S); fine to medium sand with minor very fine to very coarse sand and trace gravel &lt;6 mm; poorly sorted; subangular to rounded; dark yellowish brown (10YR 4/4).</p>
	<p>317–337: Sand (S); fine to medium sand with minor very fine to very coarse sand and trace gravel &lt;15 mm; poorly sorted; subangular to rounded; light olive brown (2.5Y 5/3).</p>		<p>460–480: Sand (S); fine to medium sand with minor very fine to very coarse sand and trace gravel &lt;5 mm; poorly sorted; subangular to rounded; olive brown (2.5Y 4/3).</p>
	<p>337–357: Sand (S); fine to coarse sand with minor very fine to very coarse sand; poorly sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p>		<p>480–500: Sand (S); very fine to fine sand with minor medium to very coarse sand; moderately sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p>
<p>357–360: No sieve sample collected.</p>			<p>500–520: Sand (S); fine to medium sand with minor very fine to very coarse sand; moderately sorted; subangular to rounded; olive brown (2.5Y 4/3).</p>
<p>360–380: Sand (S); fine to medium sand with minor very fine to very coarse sand and trace gravel &lt;5 mm; poorly sorted; subangular to rounded; olive brown (2.5Y 4/3).</p>			<p>520–540: Sand (S); fine to medium sand with minor coarse sand; well sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p>
<p>380–400: Sand (S); fine to medium with minor very fine to very coarse sand and trace gravel &lt;6 mm; poorly sorted; subangular to rounded; dark yellowish brown (10YR 4/4).</p>			<p>540–560: Sand (S); fine to medium sand with minor very fine sand; well sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p>
<p>400–420: Slightly gravelly sand ((g)S); fine to medium sand with minor very fine to very coarse sand and gravel &lt;10 mm; poorly sorted; subangular to rounded; dark yellowish brown (10YR 4/4).</p>			<p>560–580: Sand (S); fine to medium sand; well to very well sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p>
<p>420–440: Sand (S); fine to medium sand with minor coarse to very coarse sand; moderately sorted; subangular to subrounded; dark yellowish brown (10YR 4/4).</p>			

**Figure 18K.** Lithologic descriptions and photographs of **sieve** drill cuttings collected from the borehole at 16 USGS multiple-depth, monitoring-well sites in San Diego County, California, 1995, 2003–2017: (A) SDCD; (B) SDSY; (C) SDLH; (D) SDAQ; (E) SDPC; (F) SDBP; (G) SDHF; (H) SDEP; (I) SDNB; (J) SDSW; (K) **SDMC**; (L) SLDL; (M) SDCC; (N) SDOR; (O) SDOT; and (P) SDBW. —Continued.



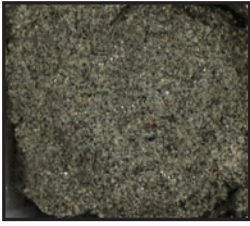
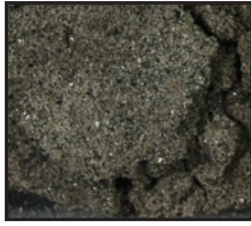
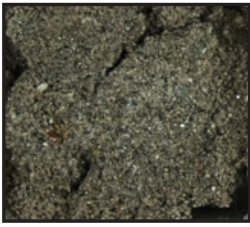
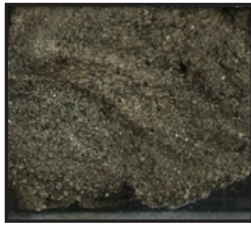
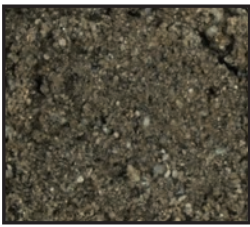
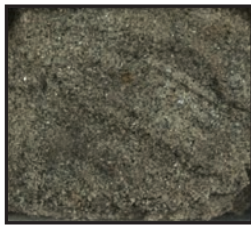
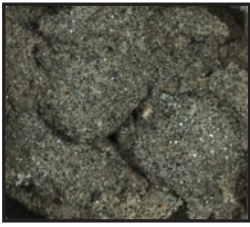

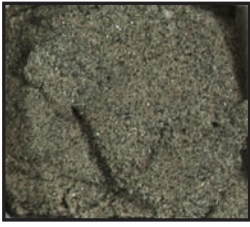


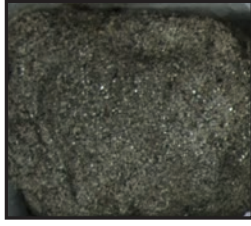
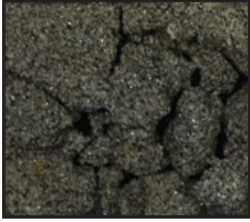
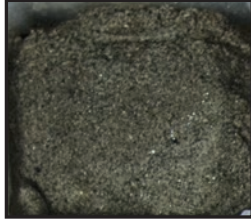
Depth interval (feet) and description	Depth interval (feet) and description		
	<p>580–600: Sand (S); fine to very fine sand; well sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p>		<p>720–740: Sand (S); fine to medium sand with minor very fine to coarse sand and trace gravel &lt;7 mm; moderately sorted; subangular to subrounded; light olive brown (2.5Y 5/3).</p>
	<p>600–620: Sand (S); fine sand with minor very fine to very coarse sand and trace gravel &lt;4 mm; moderately sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p>		<p>740–760: Sand (S); fine to medium sand with minor very fine to very coarse sand; moderately sorted; subangular to subrounded; light olive brown (2.5Y 5/3).</p>
	<p>620–640: Slightly gravelly sand ((g)S); fine to medium sand with minor very fine to very coarse sand and gravel &lt;7 mm; poorly sorted; subangular to rounded; olive brown (2.5Y 4/3).</p>		<p>760–780: Sand (S); fine to medium sand with minor very fine to very coarse sand; moderately sorted; subangular to subrounded; light olive brown (2.5Y 5/3); <i>minor shell fragments</i>.</p>
	<p>640–660: Sand (S); fine sand with minor very fine to very coarse sand with trace gravel &lt;15 mm; moderately sorted; subangular to rounded; light olive brown (2.5Y 5/3).</p>		<p>780–800: Sand (S); fine to medium sand with minor very fine to very coarse sand; moderately sorted; subangular to subrounded; light olive brown (2.5Y 5/3); <i>minor shell fragments</i>.</p>
	<p>660–680: Sand (S); fine to medium sand with minor very fine sand; well sorted; subangular to subrounded; light olive brown (2.5Y 5/3).</p>		<p>800–820: Sand (S); fine to medium sand with minor very fine to very coarse sand and trace gravel &lt;12 mm; poorly sorted; subangular to rounded; light olive brown (2.5Y 5/3); <i>minor shell fragments</i>.</p>
	<p>680–700: Sand (S); fine sand with minor very fine to coarse sand; well sorted; subangular to subrounded; olive brown (2.5Y 4/3).</p>		<p>820–840: Slightly gravelly sand ((g)S); fine to medium sand with minor very fine to very coarse sand and minor gravel &lt;5 mm; poorly sorted; subangular to rounded gravel; light olive brown (2.5Y 5/3).</p>
	<p>700–720: Sand (S); fine to medium sand with minor very fine to coarse sand; moderately sorted; subangular to subrounded; light olive brown (2.5Y 5/3).</p>		<p>840–860: Sand (S); fine to medium sand with minor very fine to very coarse sand and trace gravel &lt;6 mm; poorly sorted; subangular to rounded; dark grayish brown (2.5Y 4/2).</p>

**Figure 18K.** Lithologic descriptions and photographs of **sieve** drill cuttings collected from the borehole at 16 USGS multiple-depth, monitoring-well sites in San Diego County, California, 1995, 2003–2017: (A) SDCD; (B) SDSY; (C) SDLH; (D) SDAQ; (E) SDPC; (F) SDBP; (G) SDHF; (H) SDEP; (I) SDNB; (J) SDSW; (K) **SDMC**; (L) SLDL; (M) SDCC; (N) SDOR; (O) SDOT; and (P) SDBW. —Continued.

Depth interval (feet) and description	Depth interval (feet) and description	Depth interval (feet) and description	Depth interval (feet) and description
	<p>860–880: Sand (S); fine to medium sand; well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2); <i>minor shell fragments</i>.</p>		<p>1,029–1,049: Sand (S); very fine to fine sand with minor medium to very coarse sand; well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2).</p>
	<p>880–900: Sand (S); fine to medium sand; well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2); <i>minor shell fragments</i>.</p>		<p>1,049–1,069: Silty sand (zS); very fine sand with silt and minor fine to medium sand; well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2).</p>
	<p>900–904: <i>Core 1, no recovery.</i> 904–944: <i>Cores 2, 3, 4, 5, 6, 7, 8, and 9.</i> 944–949: No sieve sample collected.</p>		<p>1,069–1,089: Sand (S); fine to medium sand with minor very fine to very coarse sand and clay; poorly sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2); <i>trace shell fragments</i>.</p>
	<p>949–969: Sand (S); fine to medium sand with minor coarse to very coarse sand and trace gravel &lt;20 mm; moderately sorted; subangular to rounded; dark grayish brown (2.5Y 4/2); <i>minor shell fragments</i>.</p>		<p>1,089–1,109: Sand (S); fine to medium sand with minor coarse sand; well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2); <i>minor shell fragments</i>.</p>
	<p>969–989: Sand (S); fine to medium sand; well sorted; subangular to subrounded; very dark gray (2.5Y 3/1); <i>minor shell fragments</i>.</p>		<p>1,109–1,129: Sand (S); fine to medium sand; well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2); <i>minor shell fragments</i>.</p>
	<p>989–1,009: Clayey sand (cS); very fine to very coarse sand and clay and trace gravel &lt;5 mm; poorly sorted; subangular to subrounded; very dark grayish brown (2.5Y 3/2).</p>		<p>1,129–1,149: Sand (S); fine to medium sand with minor coarse sand; well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2).</p>
	<p>1,009–1,029: Silty sand (zS); very fine sand and silt with minor fine to very coarse sand and trace gravel &lt;6 mm; poorly sorted; subangular to rounded; very dark grayish brown (2.5Y 3/2); <i>trace shell fragments</i>.</p>		<p>1,149–1,169: Sand (S); fine to medium sand with minor coarse sand; well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2).</p>

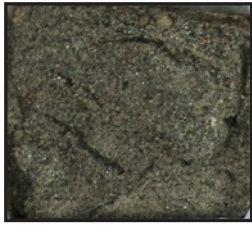
**Figure 18K.** Lithologic descriptions and photographs of **sieve** drill cuttings collected from the borehole at 16 USGS multiple-depth, monitoring-well sites in San Diego County, California, 1995, 2003–2017: (A) SDCD; (B) SDSY; (C) SDLH; (D) SDAQ; (E) SDPC; (F) SDBP; (G) SDHF; (H) SDEP; (I) SDNB; (J) SDSW; (K) **SDMC**; (L) SLDL; (M) SDCC; (N) SDOR; (O) SDOT; and (P) SDBW. —Continued.



Depth interval (feet) and description	Depth interval (feet) and description	Depth interval (feet) and description	Depth interval (feet) and description
	<p>1,169–1,189: Sand (S); fine to medium sand; well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2).</p>		<p>1,309–1,329: Sand (S); fine sand with minor very fine to medium sand; well sorted; subangular to subrounded; olive gray (5Y 4/3).</p>
	<p>1,189–1,209: Sand (S); fine to medium sand with minor coarse sand; well sorted; subangular to subrounded; dark grayish brown (2.5Y 4/2).</p>		<p>1,329–1,349: Sand (S); very fine to fine with minor medium sand and clay; moderately sorted; subangular to subrounded; olive gray (5Y 4/3).</p>
	<p>1,209–1,229: Sand (S); fine to coarse sand with minor very fine to very coarse sand and trace gravel &lt;4 mm; poorly sorted; subangular to rounded; dark grayish brown (2.5Y 4/2).</p>		<p>1,349–1,369: Sand (S); very fine to fine; well sorted; subangular to subrounded; olive gray (5Y 4/3).</p>
	<p>1,229–1,249: Sand (S); fine sand with minor very coarse sand; well sorted; subangular to rounded; dark olive gray (5Y 3/2).</p>		<p>1,369–1,389: Sand (S); very fine sand with minor fine sand and silt; well sorted; subangular to subrounded; olive gray (5Y 4/3).</p>
	<p>1,249–1,269: Sand (S); fine sand; very well sorted; subangular to subrounded; dark olive gray (5Y 3/2).</p>		<p>1,389–1,409: Silty sand (zS); very fine to fine sand with silt; well sorted; subangular to subrounded; dark olive gray (5Y 3/2).</p>
	<p>1,269–1,289: Sand (S); fine to very fine sand; well sorted; subangular to subrounded; olive gray (5Y 4/3).</p>		<p>1,409–1,429: Sand (S); very fine to fine sand; well sorted; subangular to subrounded; dark olive gray (5Y 3/2).</p>
	<p>1,289–1,309: Sand (S); fine sand with minor very fine to medium sand; well sorted; subangular to subrounded; olive gray (5Y 4/3).</p>		<p>1,429–1,449: Sand (S); very fine to fine sand; well sorted; subangular to subrounded; olive gray (5Y 4/3).</p>

**Figure 18K.** Lithologic descriptions and photographs of **sieve** drill cuttings collected from the borehole at 16 USGS multiple-depth, monitoring-well sites in San Diego County, California, 1995, 2003–2017: (A) SDCD; (B) SDSY; (C) SDLH; (D) SDAQ; (E) SDPC; (F) SDBP; (G) SDHF; (H) SDEP; (I) SDNB; (J) SDSW; (K) **SDMC**; (L) SLDL; (M) SDCC; (N) SDOR; (O) SDOT; and (P) SDBW. —Continued.

Depth interval (feet) and description



1,449–1,469: Sand (S); very fine to fine sand; well sorted; subangular to subrounded; olive gray (5Y 4/3).



1,469–1,474: *Core 10.*

1,474–1,479: *Core 11, no recovery.*

1,479–1,499: *Cores 12, 13, 14, and 15.*

1,499–1,502: No sieve sample collected.

**Figure 18K.** Lithologic descriptions and photographs of **sieve** drill cuttings collected from the borehole at 16 USGS multiple-depth, monitoring-well sites in San Diego County, California, 1995, 2003–2017: (A) SDCD; (B) SDSY; (C) SDLH; (D) SDAQ; (E) SDGP; (F) SDBP; (G) SDHF; (H) SDEP; (I) SDNB; (J) SDSW; (**K**) **SDMC**; (L) SDLG; (M) SDCC; (N) SDOR; (O) SDOT; and (P) SDBW. —Continued.