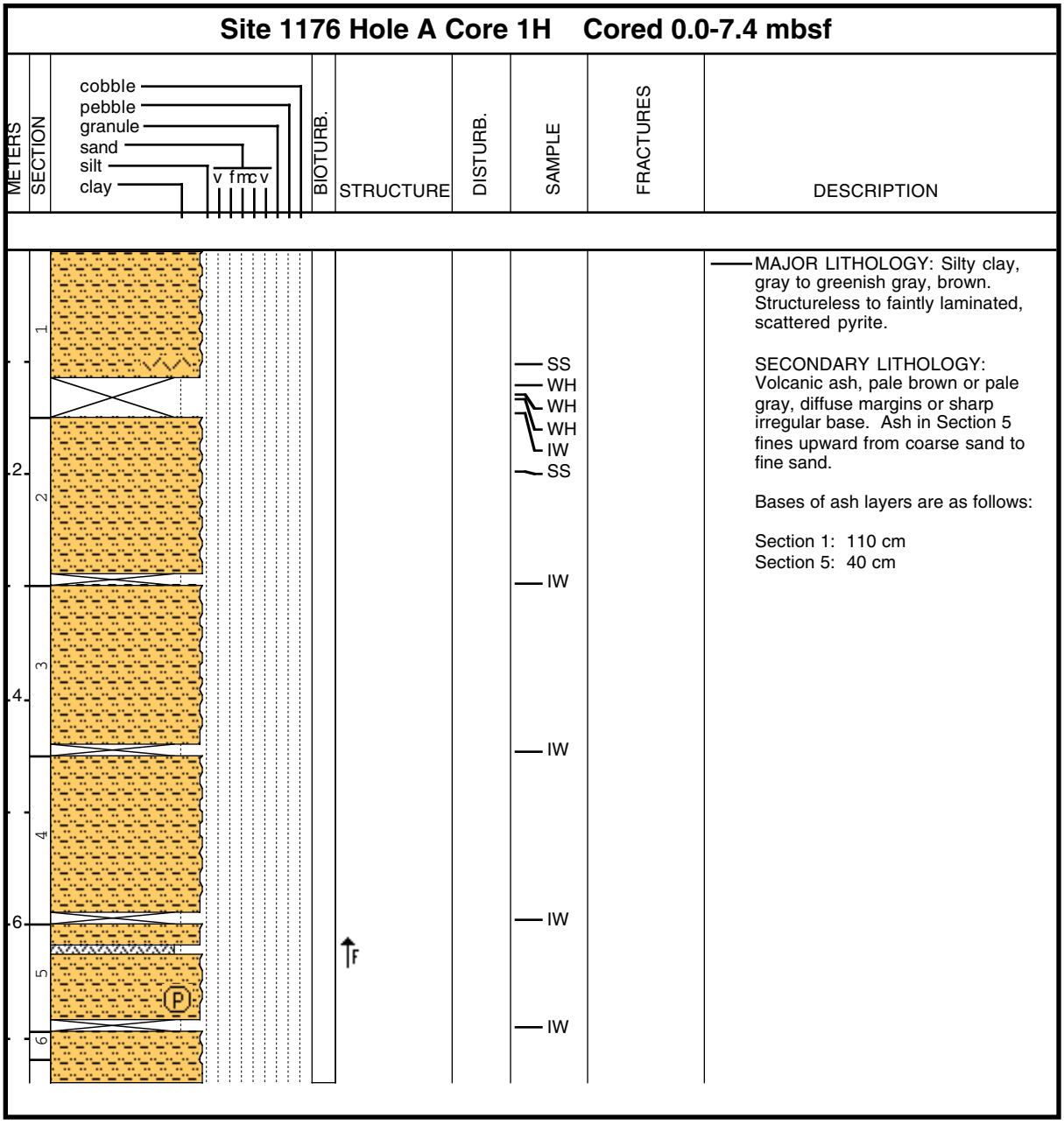
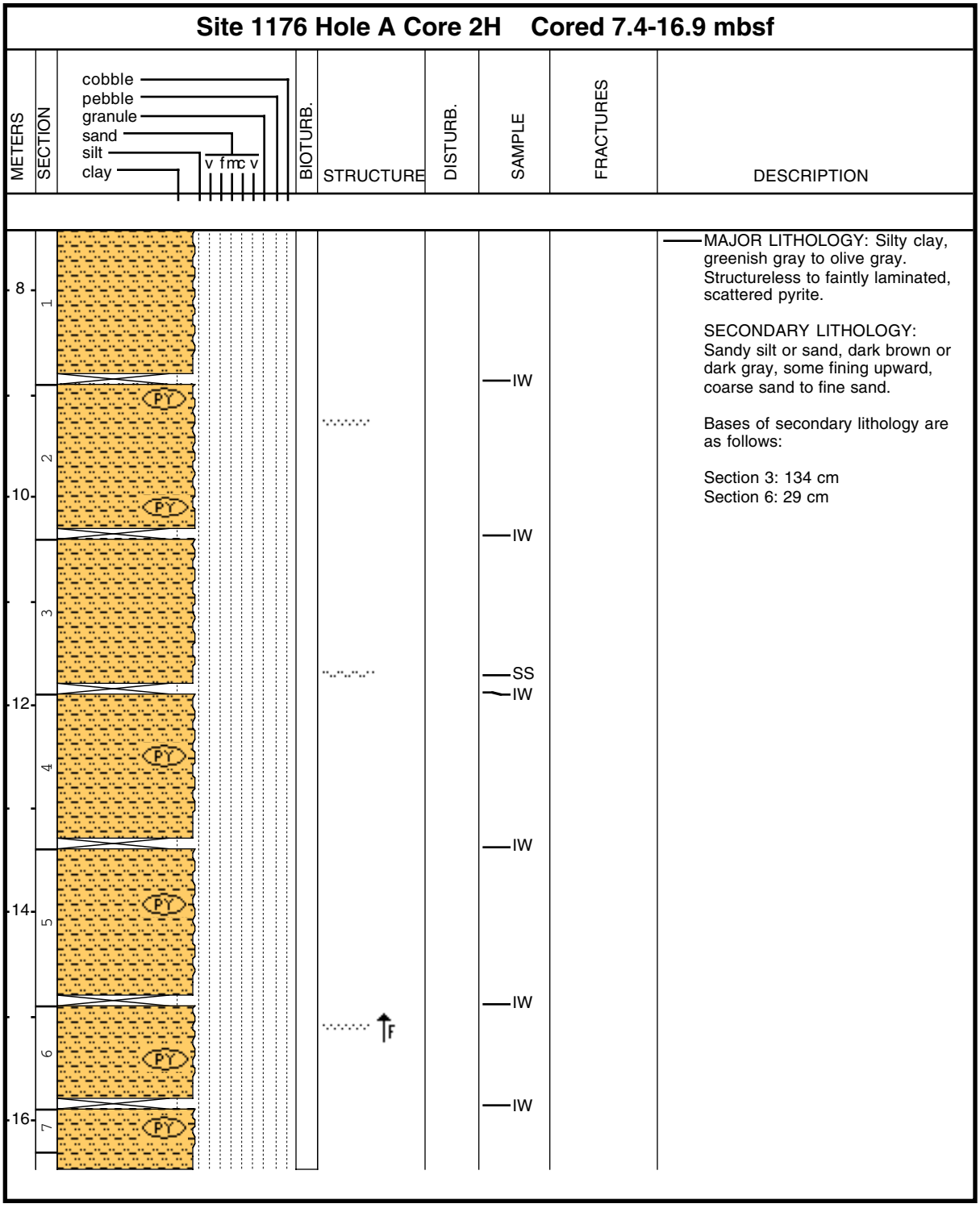
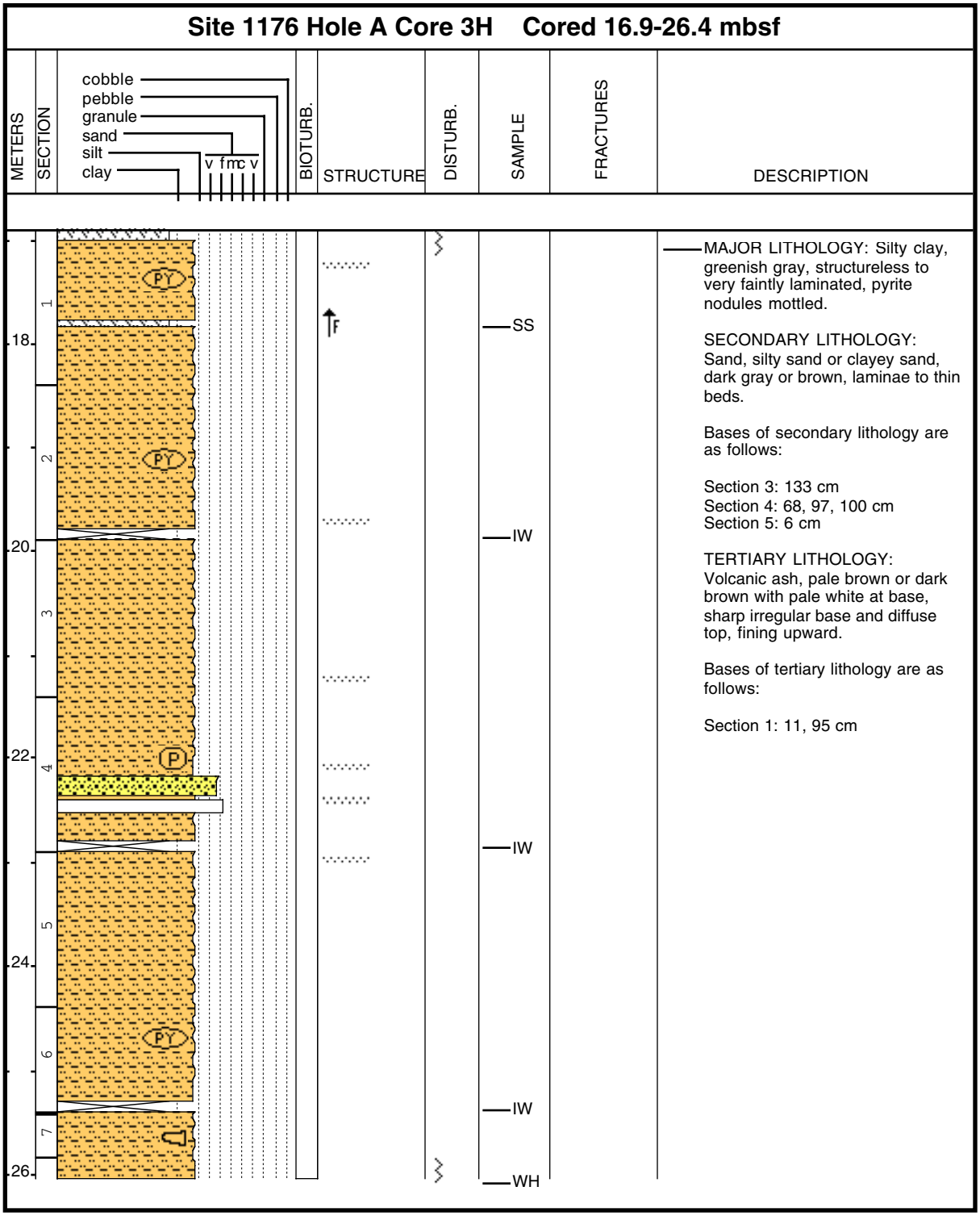
Core Photo


Site 1176 Hole A Core 1H Cored 0.0-7.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
SS
WH
WH
WH
IW
SS
IW
IW
IW
IW
F
P
MAJOR LITHOLOGY: Silty clay, gray to greenish gray, brown. Structureless to faintly laminated, scattered pyrite.
SECONDARY LITHOLOGY: Volcanic ash, pale brown or pale gray, diffuse margins or sharp irregular base. Ash in Section 5 fines upward from coarse sand to fine sand.
Bases of ash layers are as follows:
Section 1: 110 cm
Section 5: 40 cm

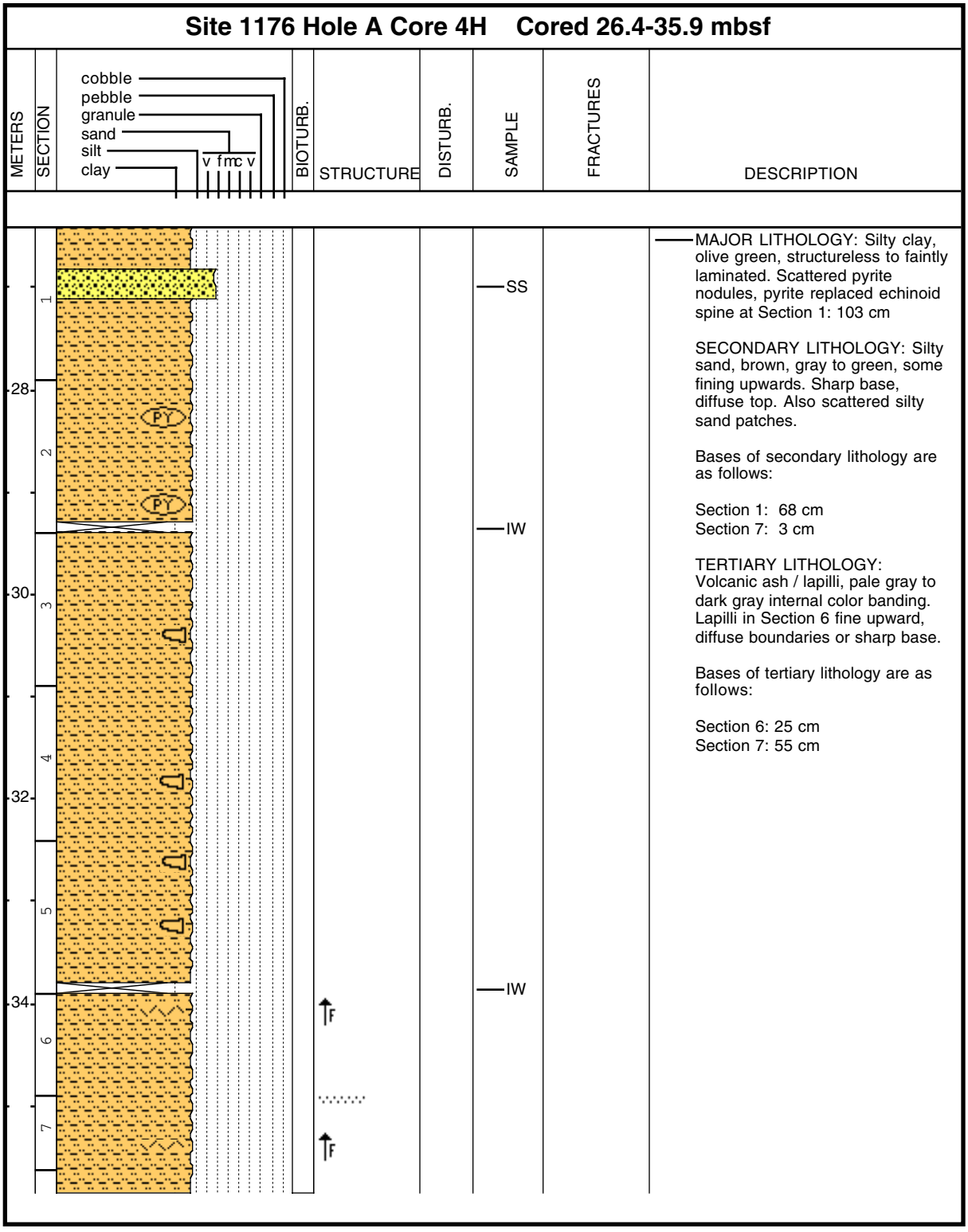
Core Photo


Site 1176 Hole A Core 2H Cored 7.4-16.9 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
8
10
12
14
16
1
2
3
4
5
6
7
PY
IW
IW
SS
IW
IW
IW
F
MAJOR LITHOLOGY: Silty clay, greenish gray to olive gray. Structureless to faintly laminated, scattered pyrite.
SECONDARY LITHOLOGY: Sandy silt or sand, dark brown or dark gray, some fining upward, coarse sand to fine sand.
Bases of secondary lithology are as follows:
Section 3: 134 cm
Section 6: 29 cm

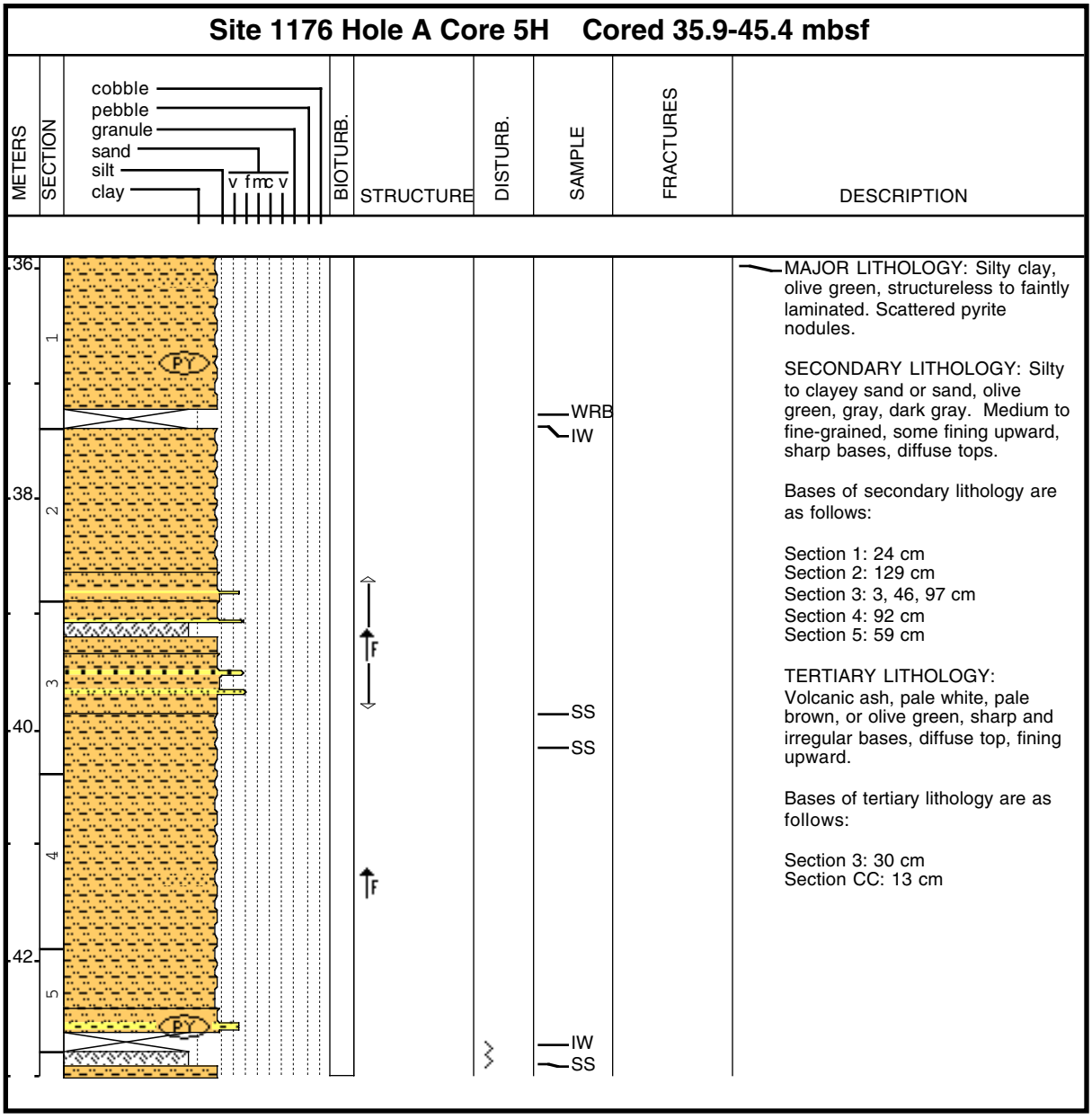
Core Photo


Site 1176 Hole A Core 3H Cored 16.9-26.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
18
20
22
24
26
1
2
3
4
5
6
7
PY
P
F
SS
IW
IW
IW
WH
MAJOR LITHOLOGY: Silty clay, greenish gray, structureless to very faintly laminated, pyrite nodules mottled.
SECONDARY LITHOLOGY: Sand, silty sand or clayey sand, dark gray or brown, laminae to thin beds.
Bases of secondary lithology are as follows:
Section 3: 133 cm
Section 4: 68, 97, 100 cm
Section 5: 6 cm
TERTIARY LITHOLOGY: Volcanic ash, pale brown or dark brown with pale white at base, sharp irregular base and diffuse top, fining upward.
Bases of tertiary lithology are as follows:
Section 1: 11, 95 cm

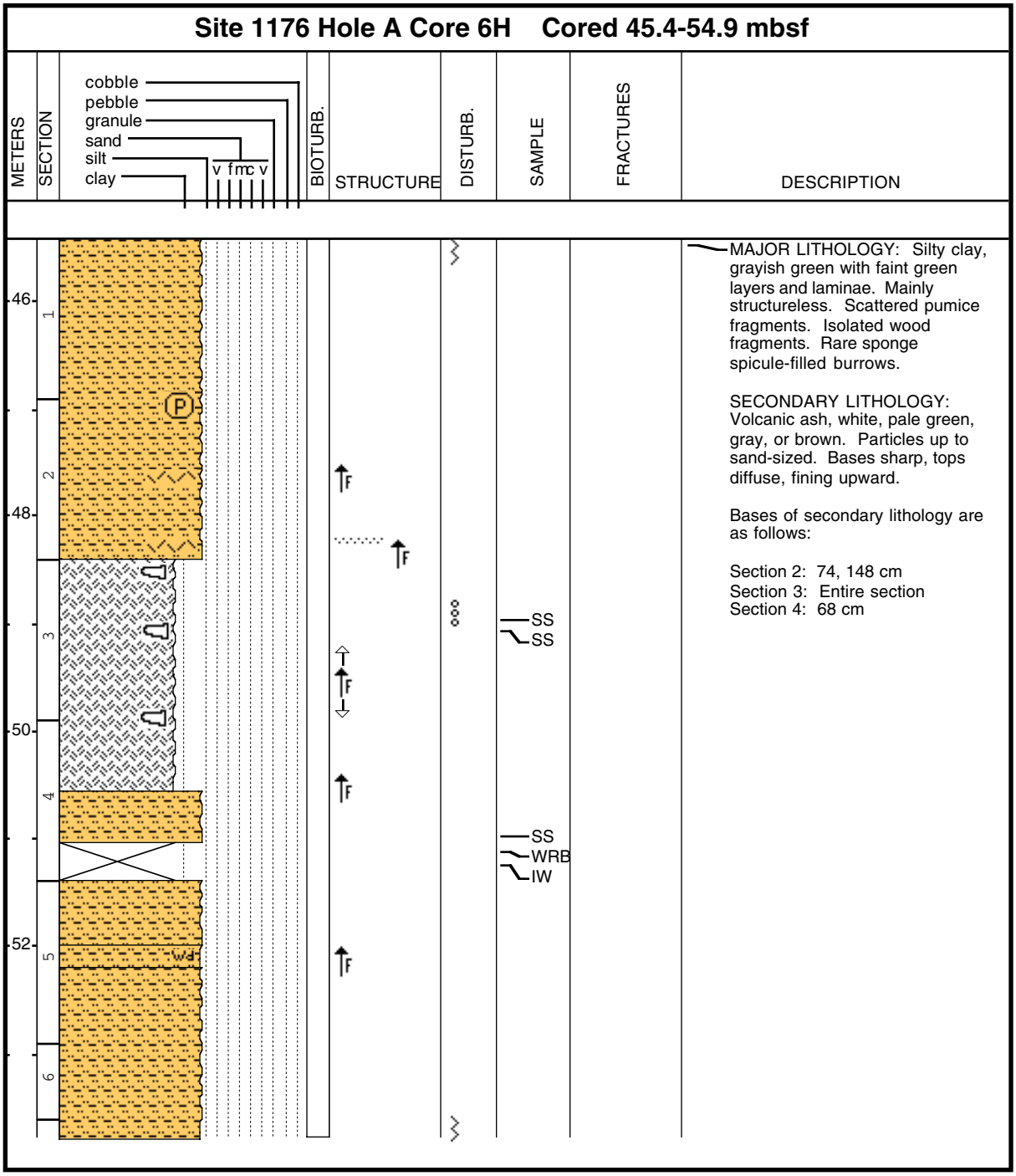
Core Photo


Site 1176 Hole A Core 4H Cored 26.4-35.9 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
28
30
32
34
1
2
3
4
5
6
7
PY
PY
SS
IW
IW
F
F
MAJOR LITHOLOGY: Silty clay, olive green, structureless to faintly laminated. Scattered pyrite nodules, pyrite replaced echinoid spine at Section 1: 103 cm
SECONDARY LITHOLOGY: Silty sand, brown, gray to green, some fining upwards. Sharp base, diffuse top. Also scattered silty sand patches.
Bases of secondary lithology are as follows:
Section 1: 68 cm
Section 7: 3 cm
TERTIARY LITHOLOGY: Volcanic ash / lapilli, pale gray to dark gray internal color banding. Lapilli in Section 6 fine upward, diffuse boundaries or sharp base.
Bases of tertiary lithology are as follows:
Section 6: 25 cm
Section 7: 55 cm

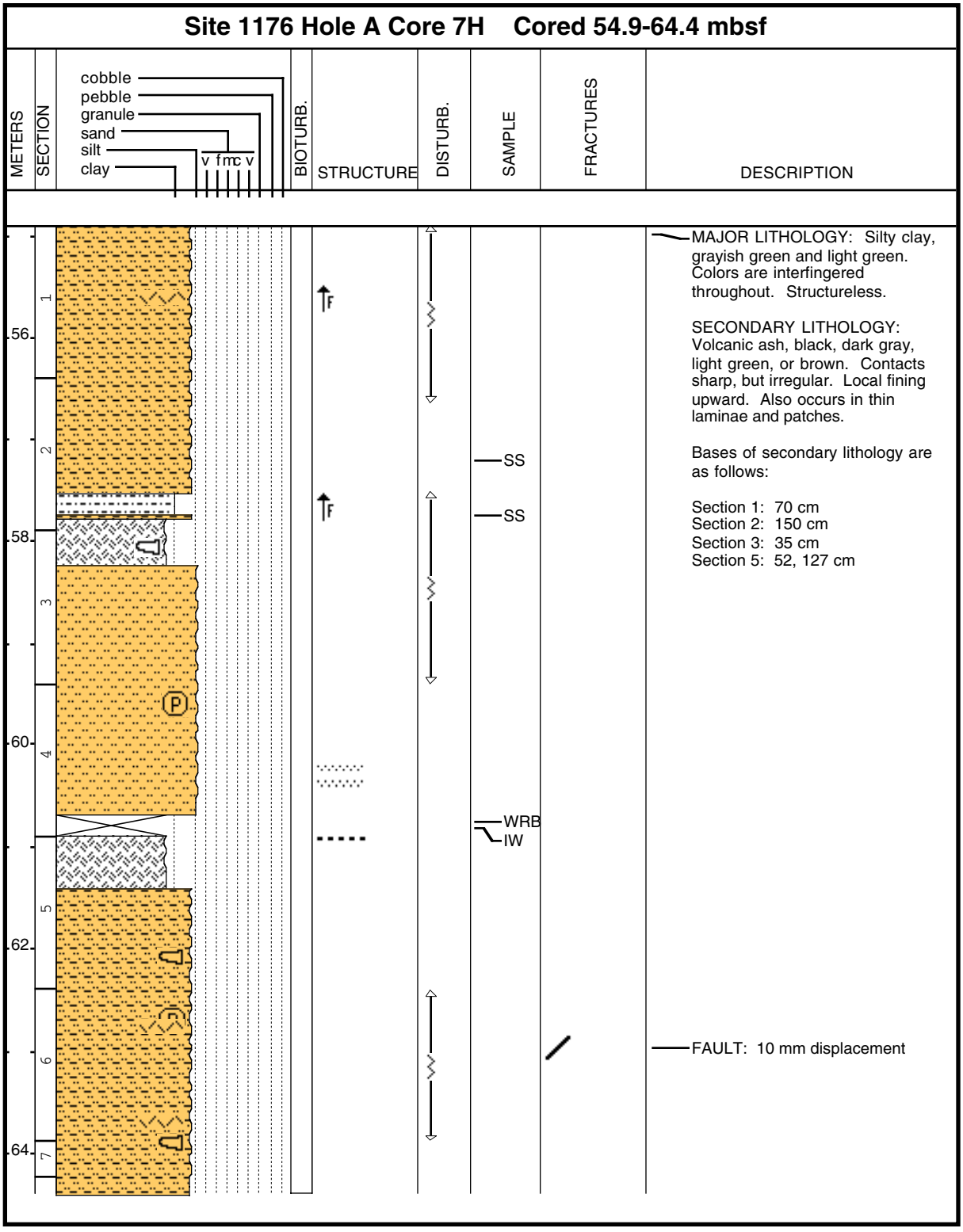
Core Photo


Site 1176 Hole A Core 5H Cored 35.9-45.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
36
38
40
42
1
2
3
4
5
PY
PY
F
F
WRB
IW
SS
SS
IW
SS
MAJOR LITHOLOGY: Silty clay, olive green, structureless to faintly laminated. Scattered pyrite nodules.
SECONDARY LITHOLOGY: Silty to clayey sand or sand, olive green, gray, dark gray. Medium to fine-grained, some fining upward, sharp bases, diffuse tops.
Bases of secondary lithology are as follows:
Section 1: 24 cm
Section 2: 129 cm
Section 3: 3, 46, 97 cm
Section 4: 92 cm
Section 5: 59 cm
TERTIARY LITHOLOGY: Volcanic ash, pale white, pale brown, or olive green, sharp and irregular bases, diffuse top, fining upward.
Bases of tertiary lithology are as follows:
Section 3: 30 cm
Section CC: 13 cm

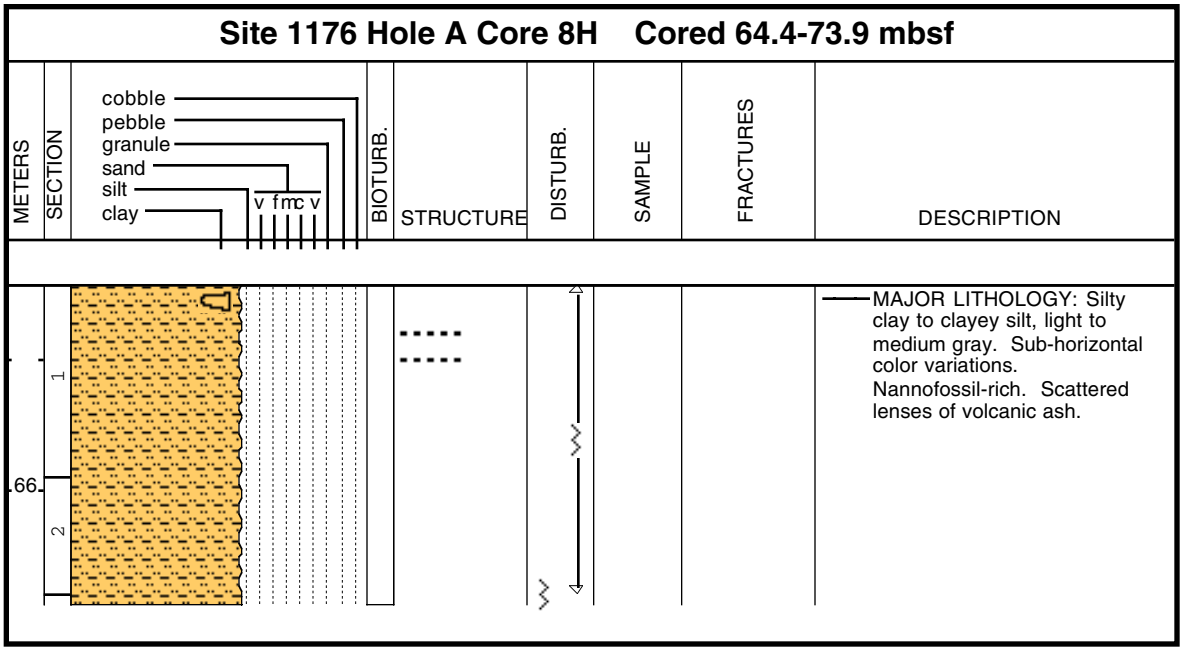
Core Photo


Site 1176 Hole A Core 6H Cored 45.4-54.9 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
46
48
50
52
1
2
3
4
5
6
P
F
SS
SS
SS
WRB
IW
MAJOR LITHOLOGY: Silty clay, grayish green with faint green layers and laminae. Mainly structureless. Scattered pumice fragments. Isolated wood fragments. Rare sponge spicule-filled burrows.
SECONDARY LITHOLOGY: Volcanic ash, white, pale green, gray, or brown. Particles up to sand-sized. Bases sharp, tops diffuse, fining upward.
Bases of secondary lithology are as follows:
Section 2: 74, 148 cm
Section 3: Entire section
Section 4: 68 cm

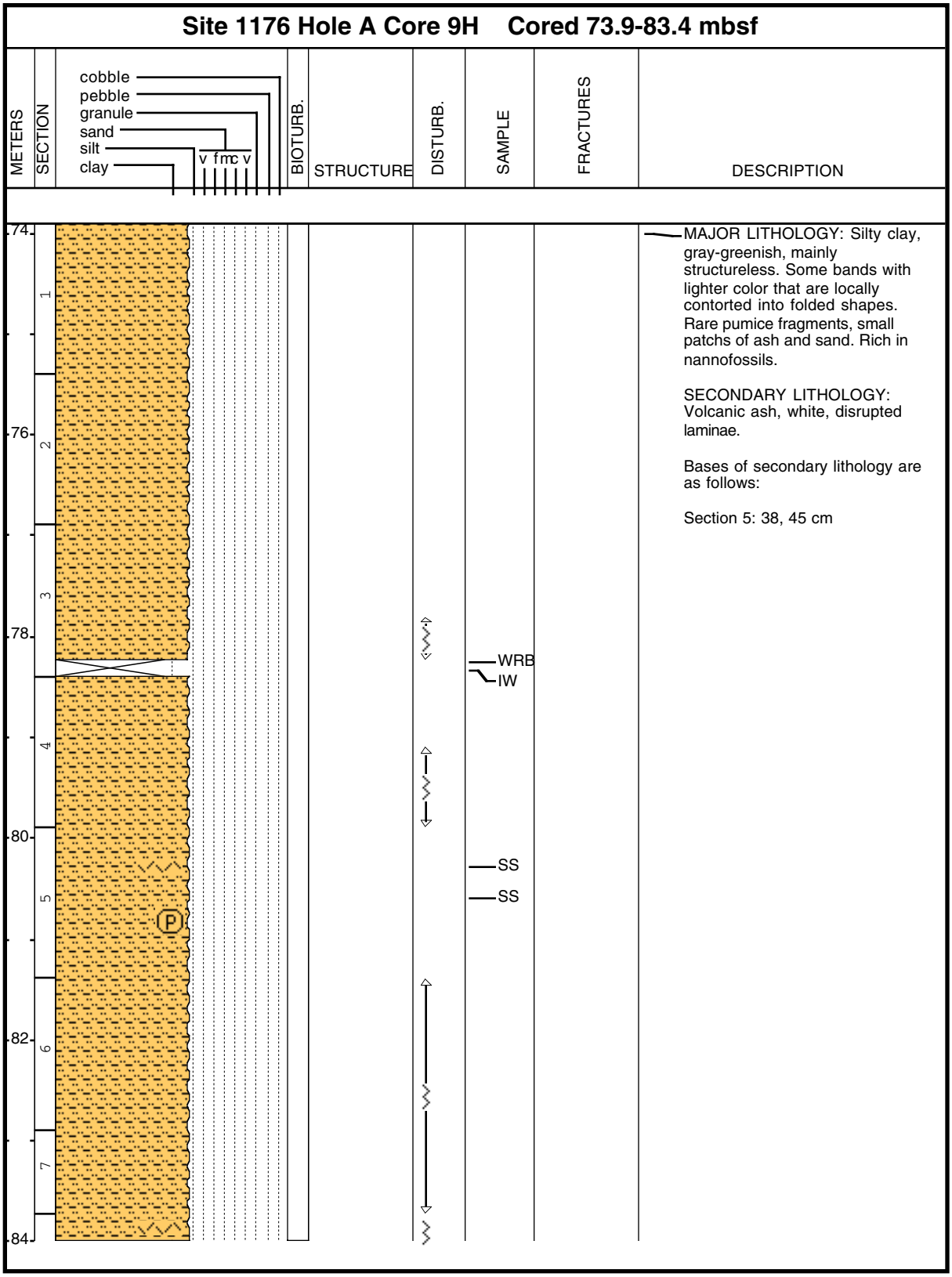
Core Photo


Site 1176 Hole A Core 7H Cored 54.9-64.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
56
58
60
62
64
1
2
3
4
5
6
7
F
F
P
SS
SS
WRB
IW
MAJOR LITHOLOGY: Silty clay, grayish green and light green. Colors are interfingered throughout. Structureless.
SECONDARY LITHOLOGY: Volcanic ash, black, dark gray, light green, or brown. Contacts sharp, but irregular. Local fining upward. Also occurs in thin laminae and patches.
Bases of secondary lithology are as follows:
Section 1: 70 cm
Section 2: 150 cm
Section 3: 35 cm
Section 5: 52, 127 cm
FAULT: 10 mm displacement

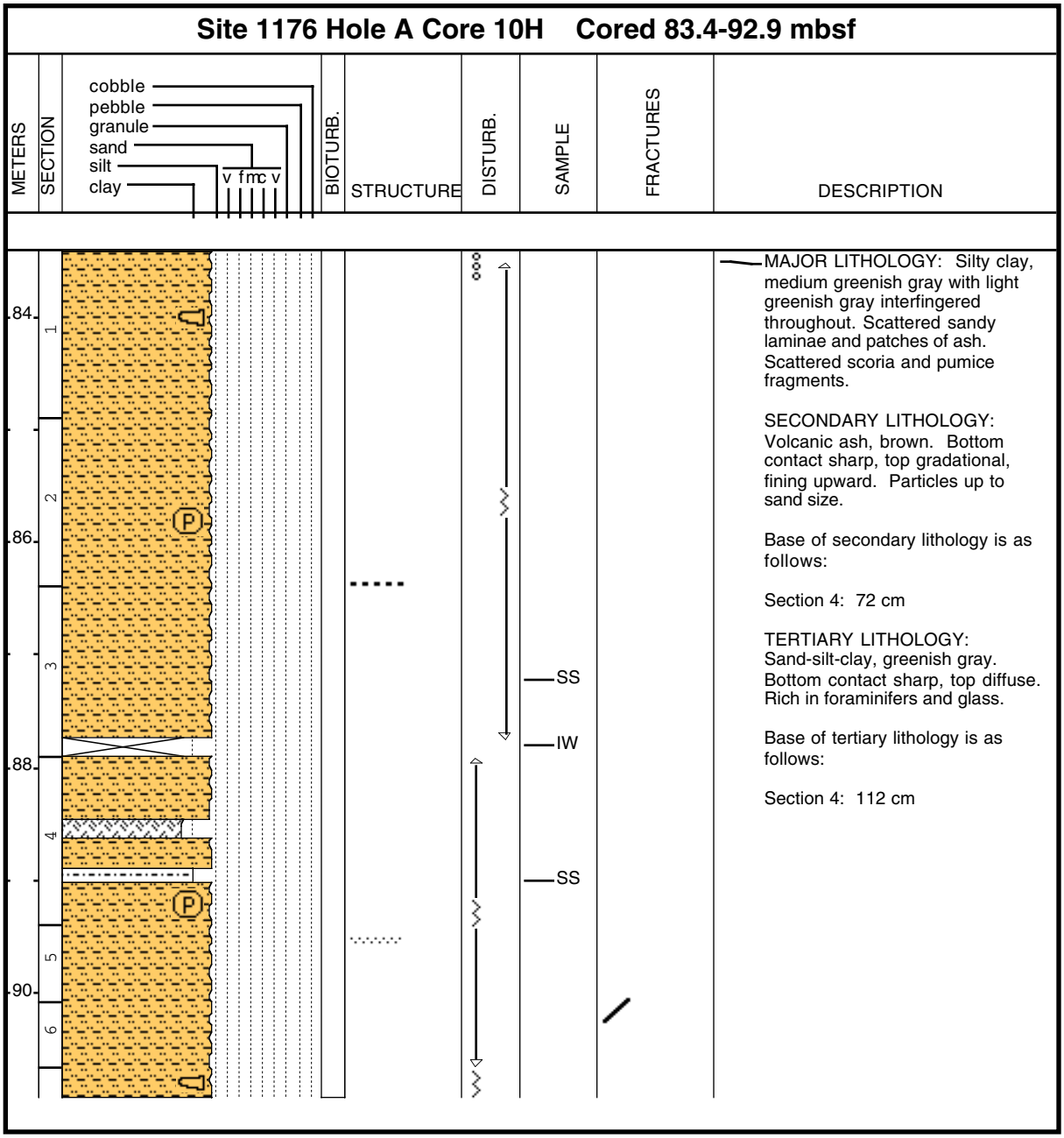
Core Photo


Site 1176 Hole A Core 8H Cored 64.4-73.9 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
66
1
2
MAJOR LITHOLOGY: Silty clay to clayey silt, light to medium gray. Sub-horizontal color variations. Nannofossil-rich. Scattered lenses of volcanic ash.

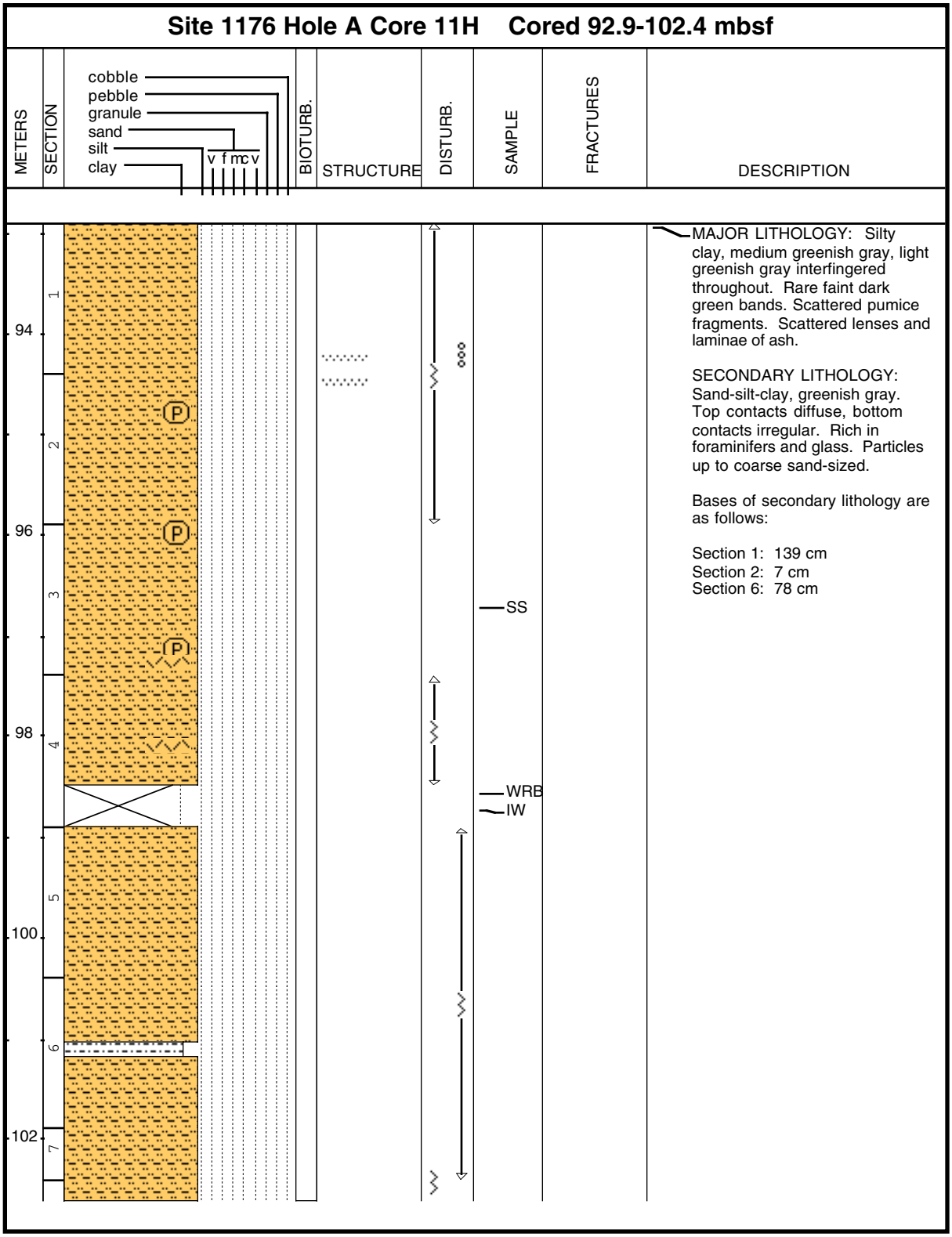
Core Photo


Site 1176 Hole A Core 9H Cored 73.9-83.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
74
76
78
80
82
84
1
2
3
4
5
6
7
P
WRB
IW
SS
SS
MAJOR LITHOLOGY: Silty clay, gray-greenish, mainly structureless. Some bands with lighter color that are locally contorted into folded shapes. Rare pumice fragments, small patchs of ash and sand. Rich in nannofossils.
SECONDARY LITHOLOGY: Volcanic ash, white, disrupted laminae.
Bases of secondary lithology are as follows:
Section 5: 38, 45 cm

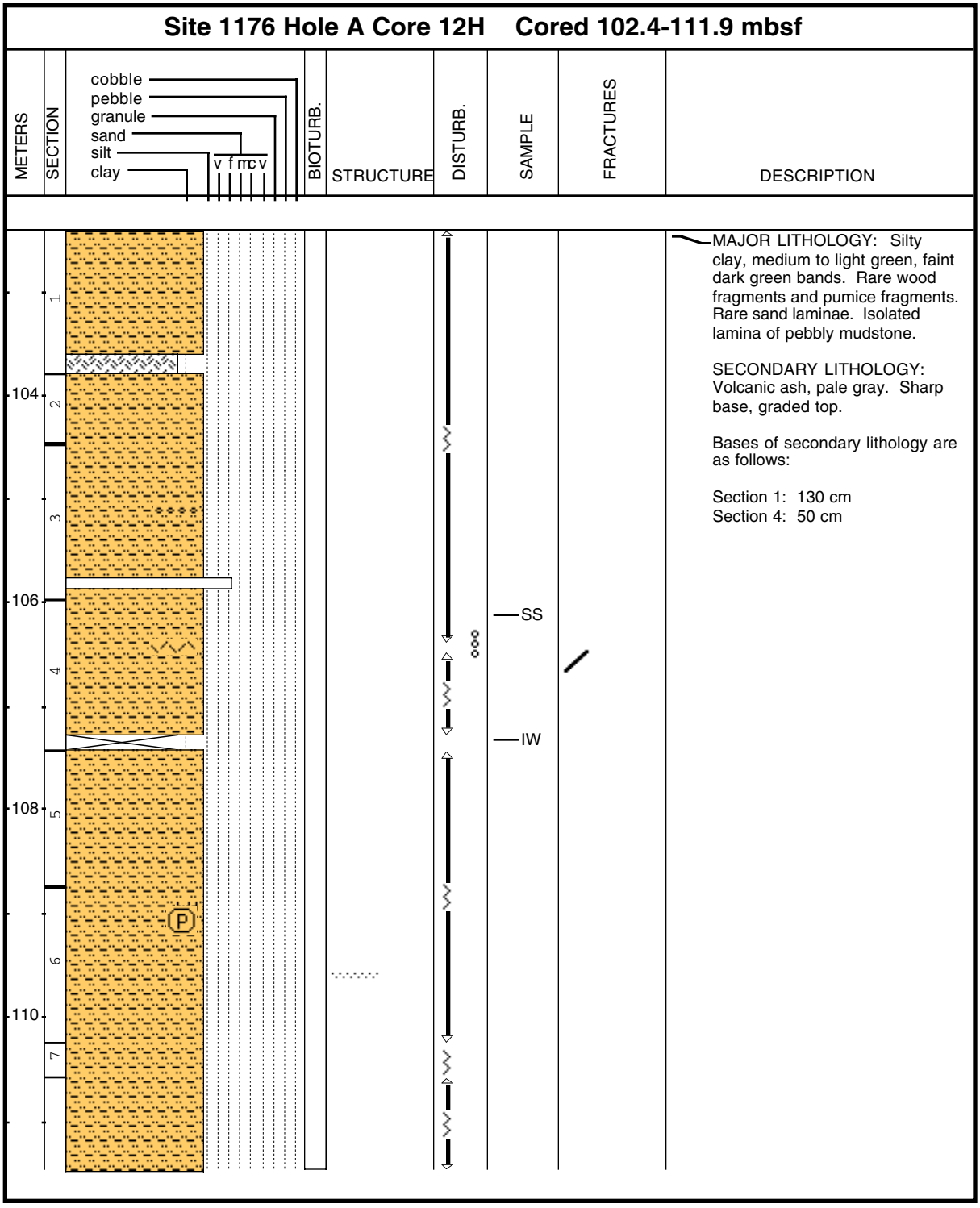
Core Photo


Site 1176 Hole A Core 10H Cored 83.4-92.9 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
84
86
88
90
1
2
3
4
5
6
P
P
SS
IW
SS
MAJOR LITHOLOGY: Silty clay, medium greenish gray with light greenish gray interfingered throughout. Scattered sandy laminae and patches of ash. Scattered scoria and pumice fragments.
SECONDARY LITHOLOGY: Volcanic ash, brown. Bottom contact sharp, top gradational, fining upward. Particles up to sand size.
Base of secondary lithology is as follows:
Section 4: 72 cm
TERTIARY LITHOLOGY: Sand-silt-clay, greenish gray. Bottom contact sharp, top diffuse. Rich in foraminifers and glass.
Base of tertiary lithology is as follows:
Section 4: 112 cm

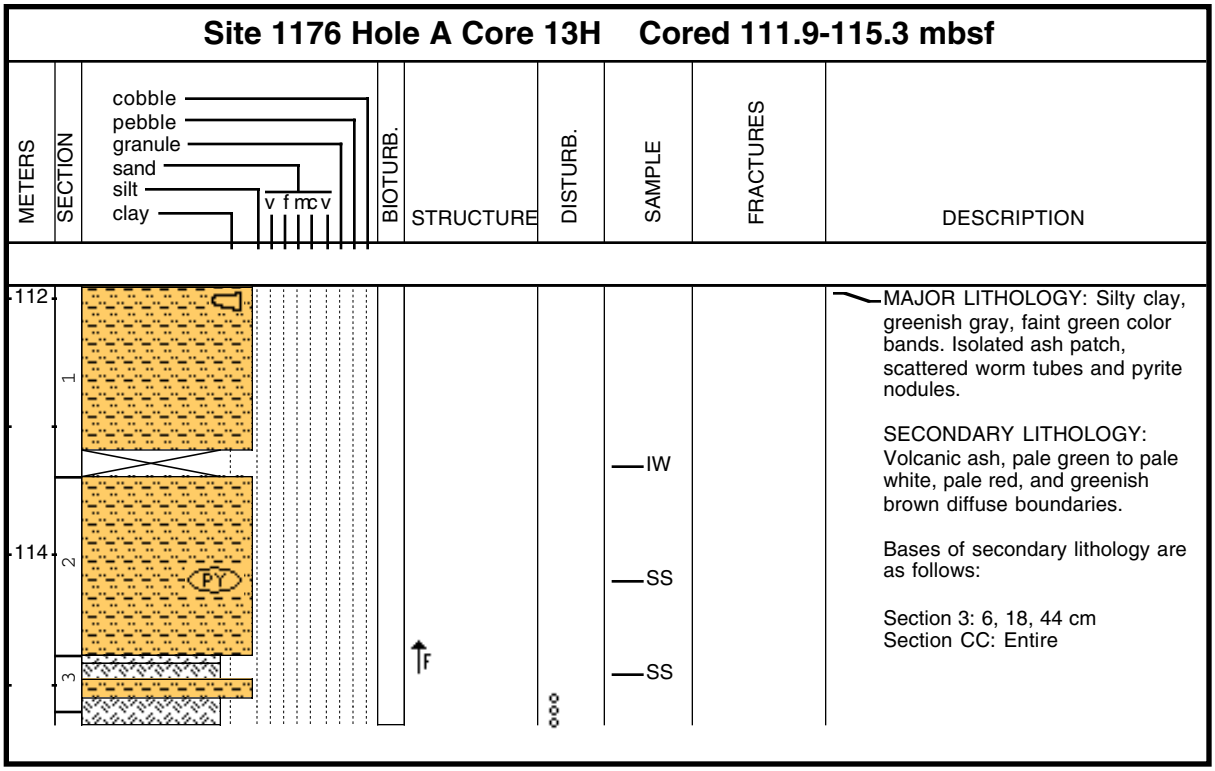
Core Photo


Site 1176 Hole A Core 11H Cored 92.9-102.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
94
96
98
100
102
1
2
3
4
5
6
7
P
SS
WRB
IW
MAJOR LITHOLOGY: Silty clay, medium greenish gray, light greenish gray interfingered throughout. Rare faint dark green bands. Scattered pumice fragments. Scattered lenses and laminae of ash.
SECONDARY LITHOLOGY: Sand-silt-clay, greenish gray. Top contacts diffuse, bottom contacts irregular. Rich in foraminifers and glass. Particles up to coarse sand-sized.
Bases of secondary lithology are as follows:
Section 1: 139 cm
Section 2: 7 cm
Section 6: 78 cm

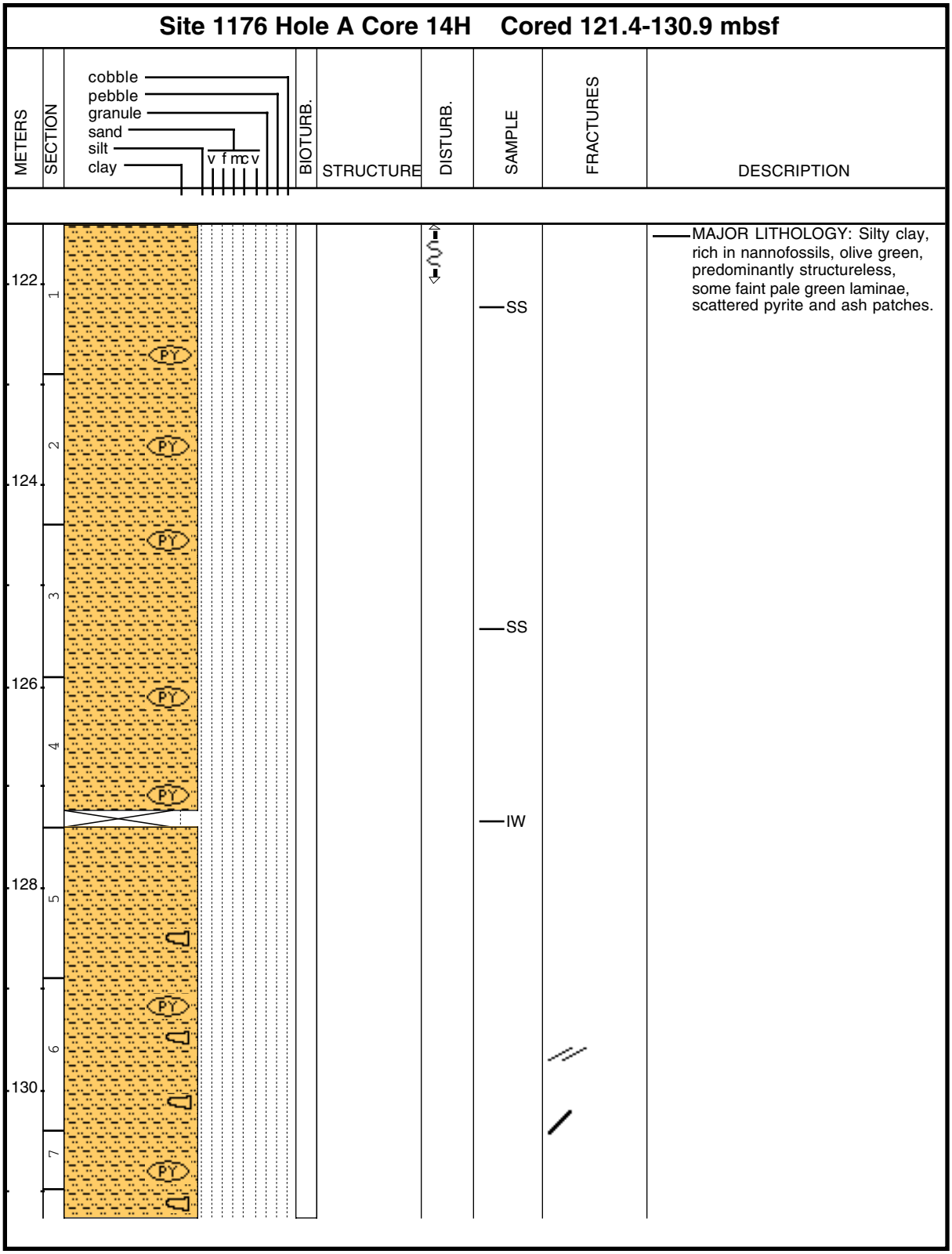
Core Photo


Site 1176 Hole A Core 12H Cored 102.4-111.9 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
104
106
108
110
1
2
3
4
5
6
7
SS
IW
P
MAJOR LITHOLOGY: Silty clay, medium to light green, faint dark green bands. Rare wood fragments and pumice fragments. Rare sand laminae. Isolated lamina of pebbly mudstone.
SECONDARY LITHOLOGY: Volcanic ash, pale gray. Sharp base, graded top.
Bases of secondary lithology are as follows:
Section 1: 130 cm
Section 4: 50 cm

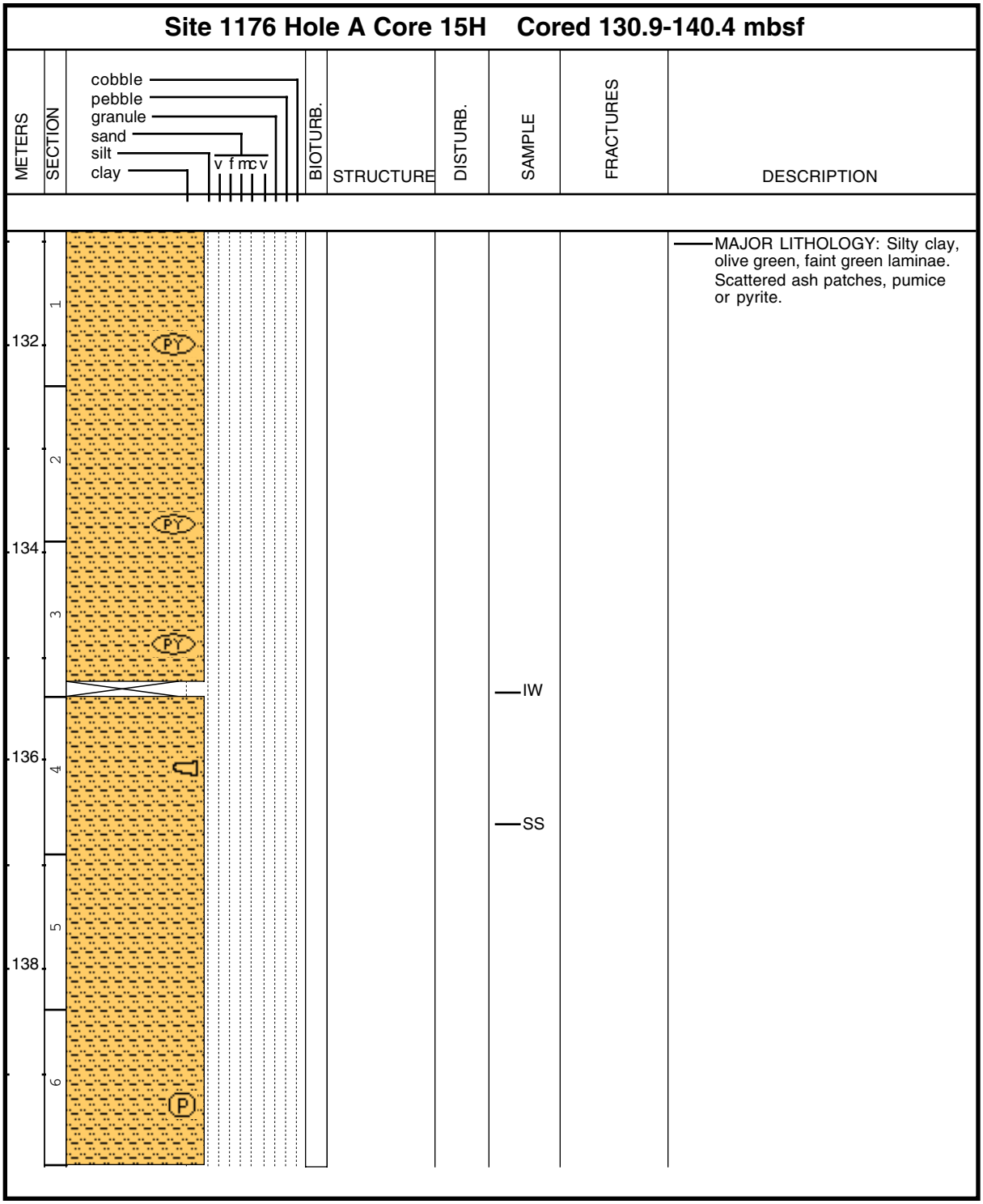
Core Photo


Site 1176 Hole A Core 13H Cored 111.9-115.3 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
112
114
1
2
3
PY
F
IW
SS
SS
MAJOR LITHOLOGY: Silty clay, greenish gray, faint green color bands. Isolated ash patch, scattered worm tubes and pyrite nodules.
SECONDARY LITHOLOGY: Volcanic ash, pale green to pale white, pale red, and greenish brown diffuse boundaries.
Bases of secondary lithology are as follows:
Section 3: 6, 18, 44 cm
Section CC: Entire

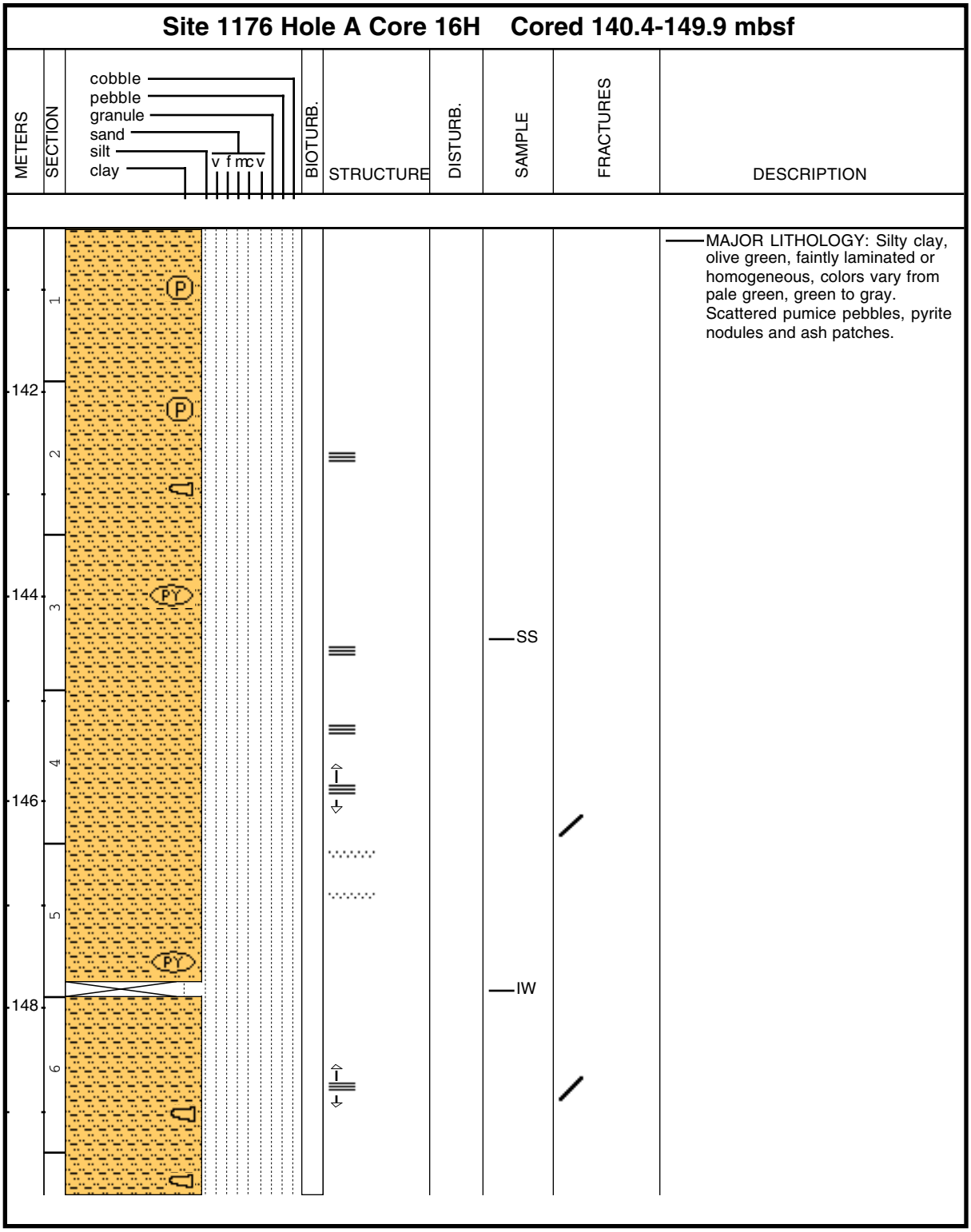
Core Photo


Site 1176 Hole A Core 14H Cored 121.4-130.9 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
122
124
126
128
130
1
2
3
4
5
6
7
PY
SS
SS
IW
MAJOR LITHOLOGY: Silty clay, rich in nannofossils, olive green, predominantly structureless, some faint pale green laminae, scattered pyrite and ash patches.

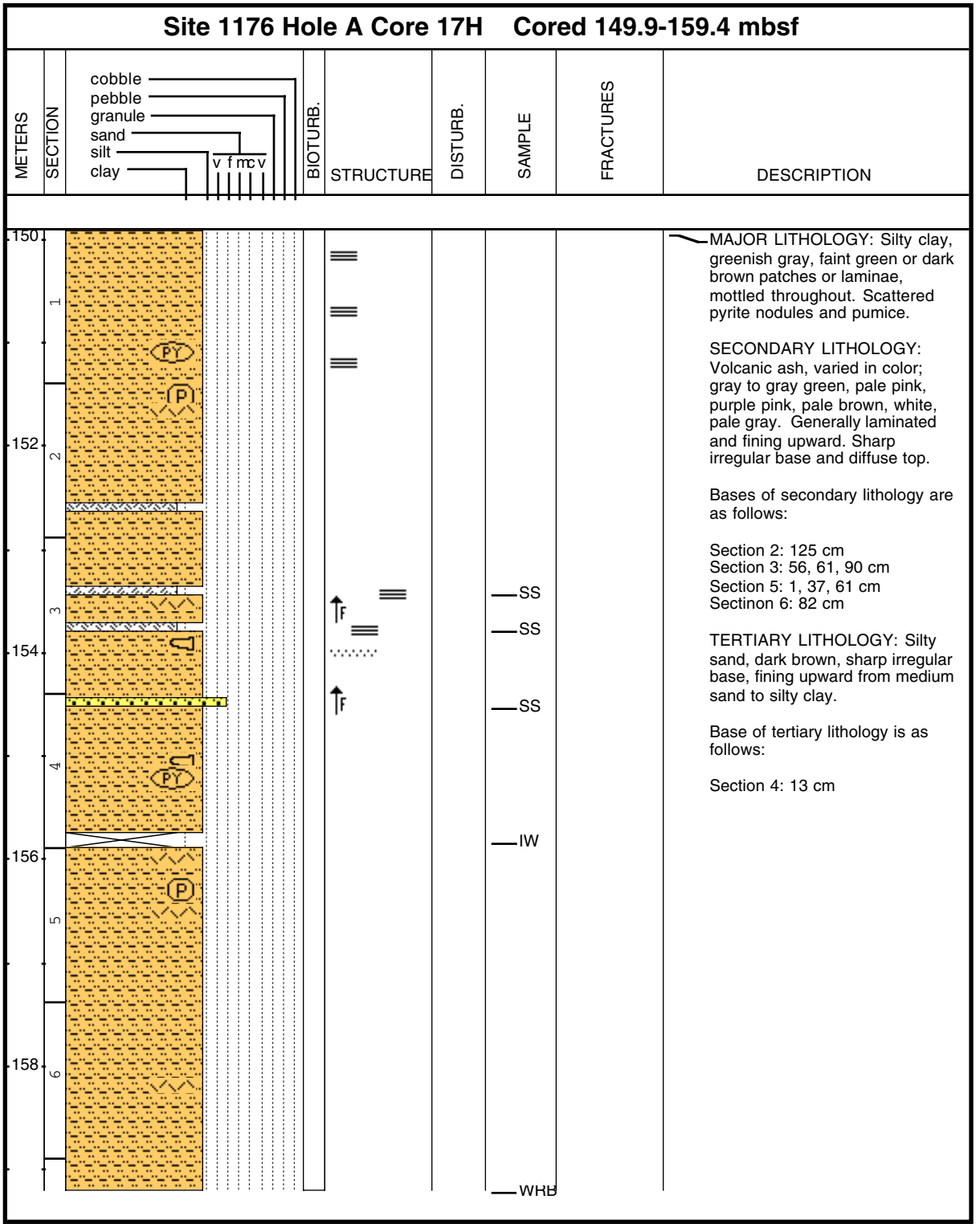
Core Photo


Site 1176 Hole A Core 15H Cored 130.9-140.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
MAJOR LITHOLOGY: Silty clay, olive green, faint green laminae. Scattered ash patches, pumice or pyrite.
132
134
136
138
1
2
3
4
5
6
PY
PY
PY
P
IW
SS

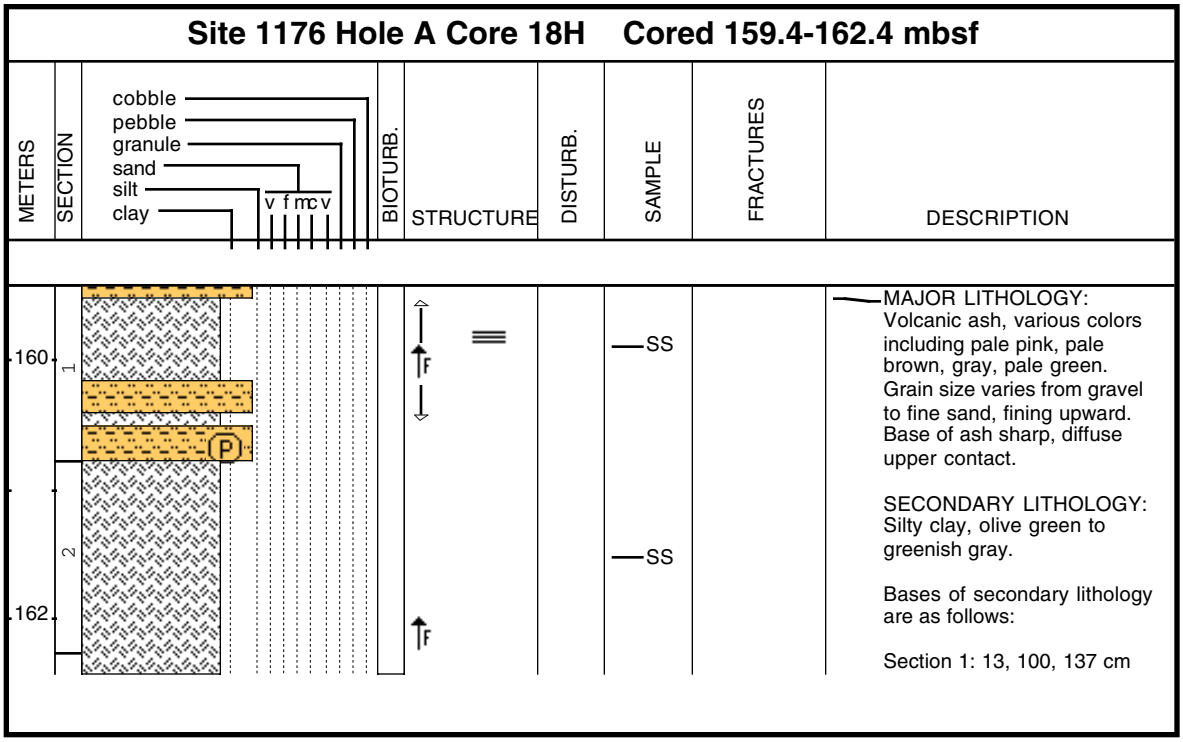
Core Photo


Site 1176 Hole A Core 16H Cored 140.4-149.9 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
MAJOR LITHOLOGY: Silty clay, olive green, faintly laminated or homogeneous, colors vary from pale green, green to gray. Scattered pumice pebbles, pyrite nodules and ash patches.
142
144
146
148
SS
IW

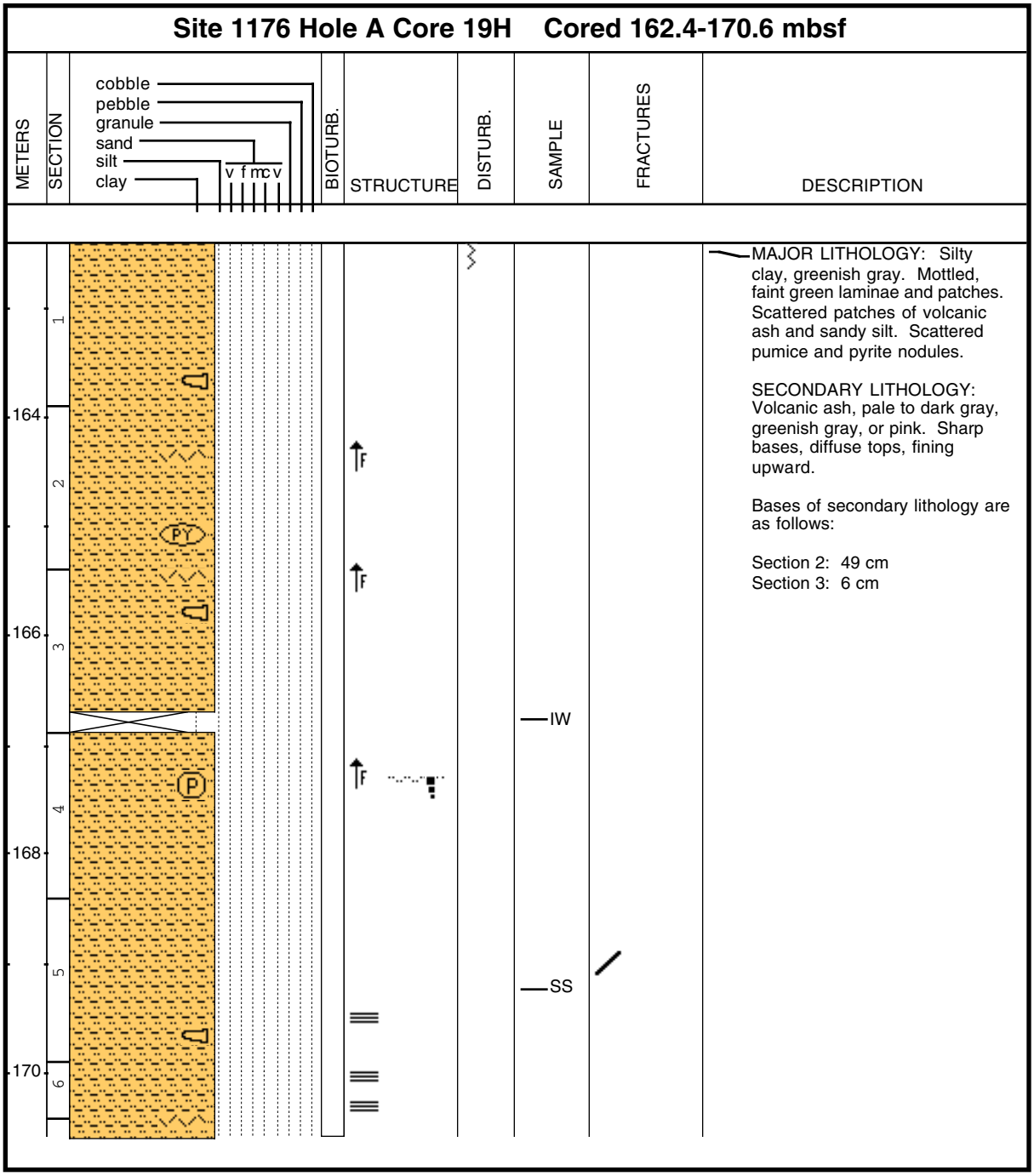
Core Photo


Site 1176 Hole A Core 17H Cored 149.9-159.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
150
152
154
156
158
1
2
3
4
5
6
PY
P
F
SS
SS
SS
IW
WRB
MAJOR LITHOLOGY: Silty clay, greenish gray, faint green or dark brown patches or laminae, mottled throughout. Scattered pyrite nodules and pumice.
SECONDARY LITHOLOGY: Volcanic ash, varied in color; gray to gray green, pale pink, purple pink, pale brown, white, pale gray. Generally laminated and fining upward. Sharp irregular base and diffuse top.
Bases of secondary lithology are as follows:
Section 2: 125 cm
Section 3: 56, 61, 90 cm
Section 5: 1, 37, 61 cm
Sectinon 6: 82 cm
TERTIARY LITHOLOGY: Silty sand, dark brown, sharp irregular base, fining upward from medium sand to silty clay.
Base of tertiary lithology is as follows:
Section 4: 13 cm

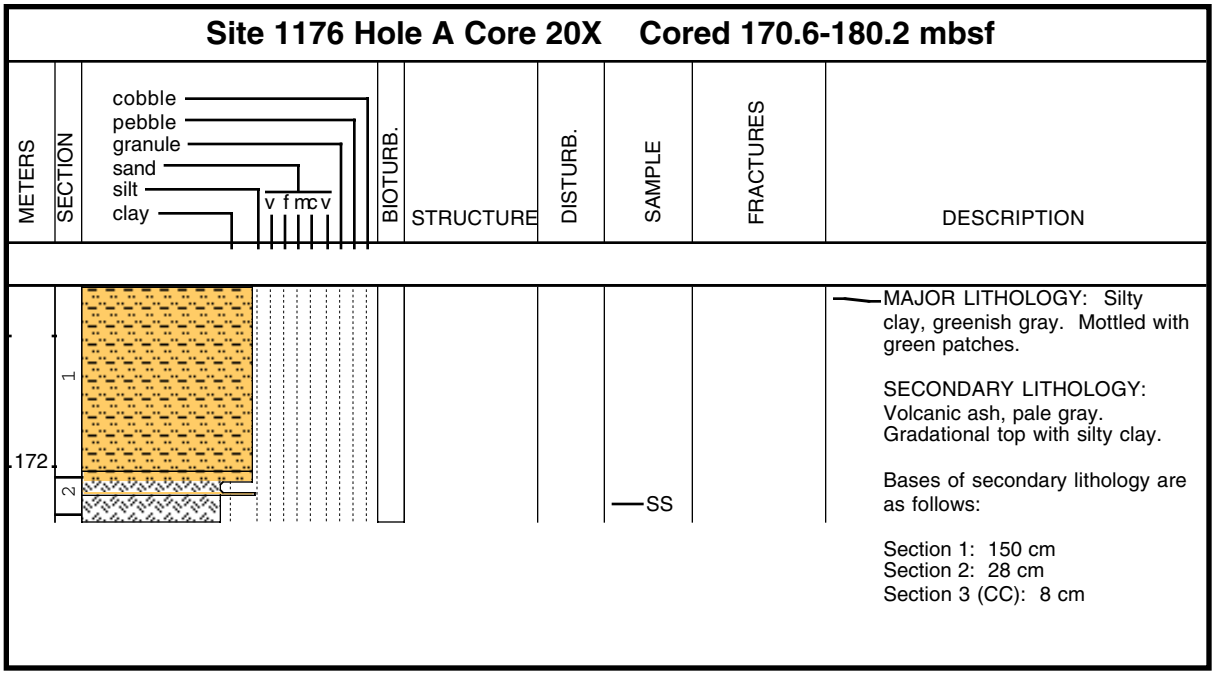
Core Photo


Site 1176 Hole A Core 18H Cored 159.4-162.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
160
162
1
2
P
F
F
SS
SS
MAJOR LITHOLOGY: Volcanic ash, various colors including pale pink, pale brown, gray, pale green. Grain size varies from gravel to fine sand, fining upward. Base of ash sharp, diffuse upper contact.
SECONDARY LITHOLOGY: Silty clay, olive green to greenish gray.
Bases of secondary lithology are as follows:
Section 1: 13, 100, 137 cm

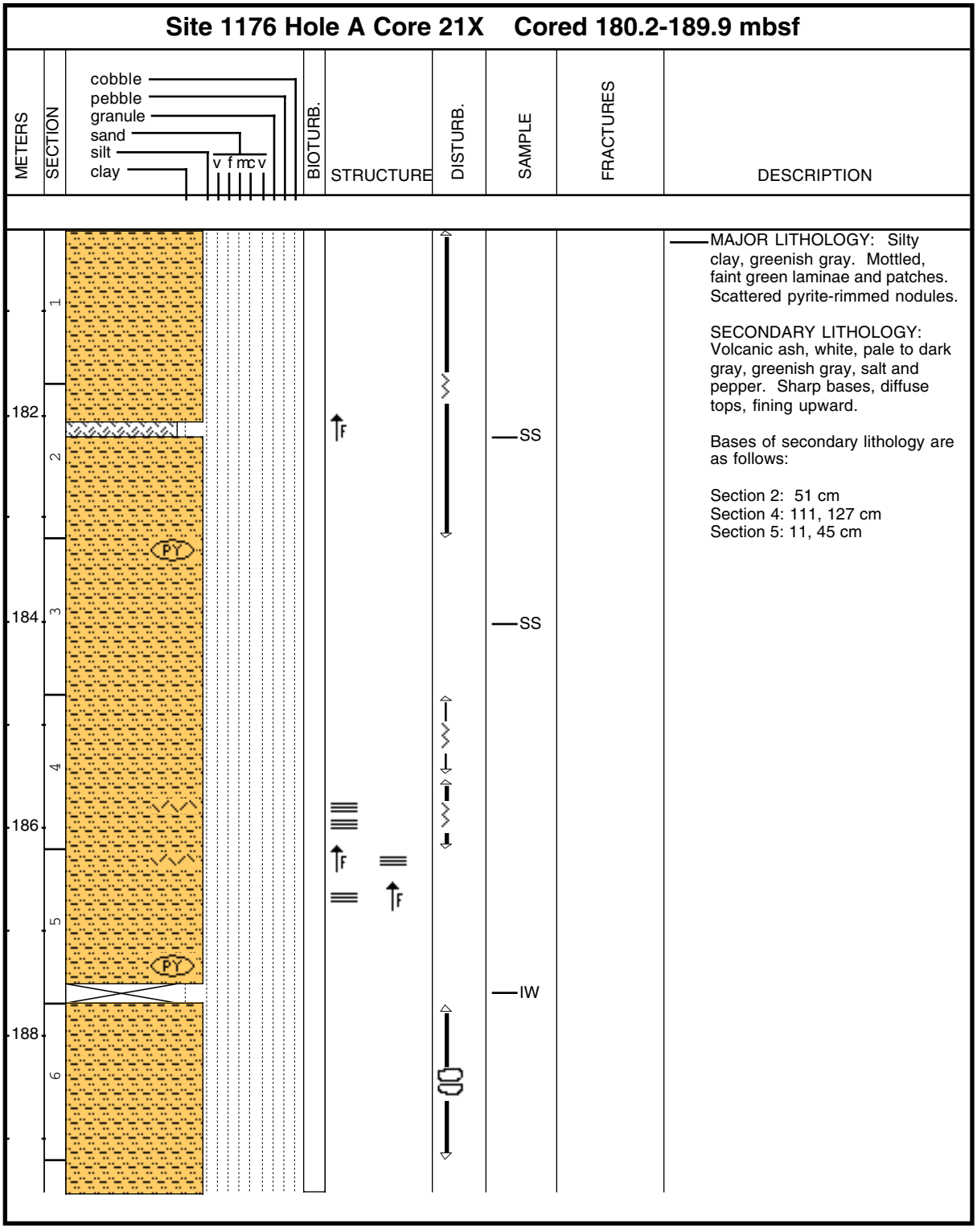
Core Photo


Site 1176 Hole A Core 19H Cored 162.4-170.6 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
164
166
168
170
1
2
3
4
5
6
PY
P
F
IW
SS
MAJOR LITHOLOGY: Silty clay, greenish gray. Mottled, faint green laminae and patches. Scattered patches of volcanic ash and sandy silt. Scattered pumice and pyrite nodules.
SECONDARY LITHOLOGY: Volcanic ash, pale to dark gray, greenish gray, or pink. Sharp bases, diffuse tops, fining upward.
Bases of secondary lithology are as follows:
Section 2: 49 cm
Section 3: 6 cm

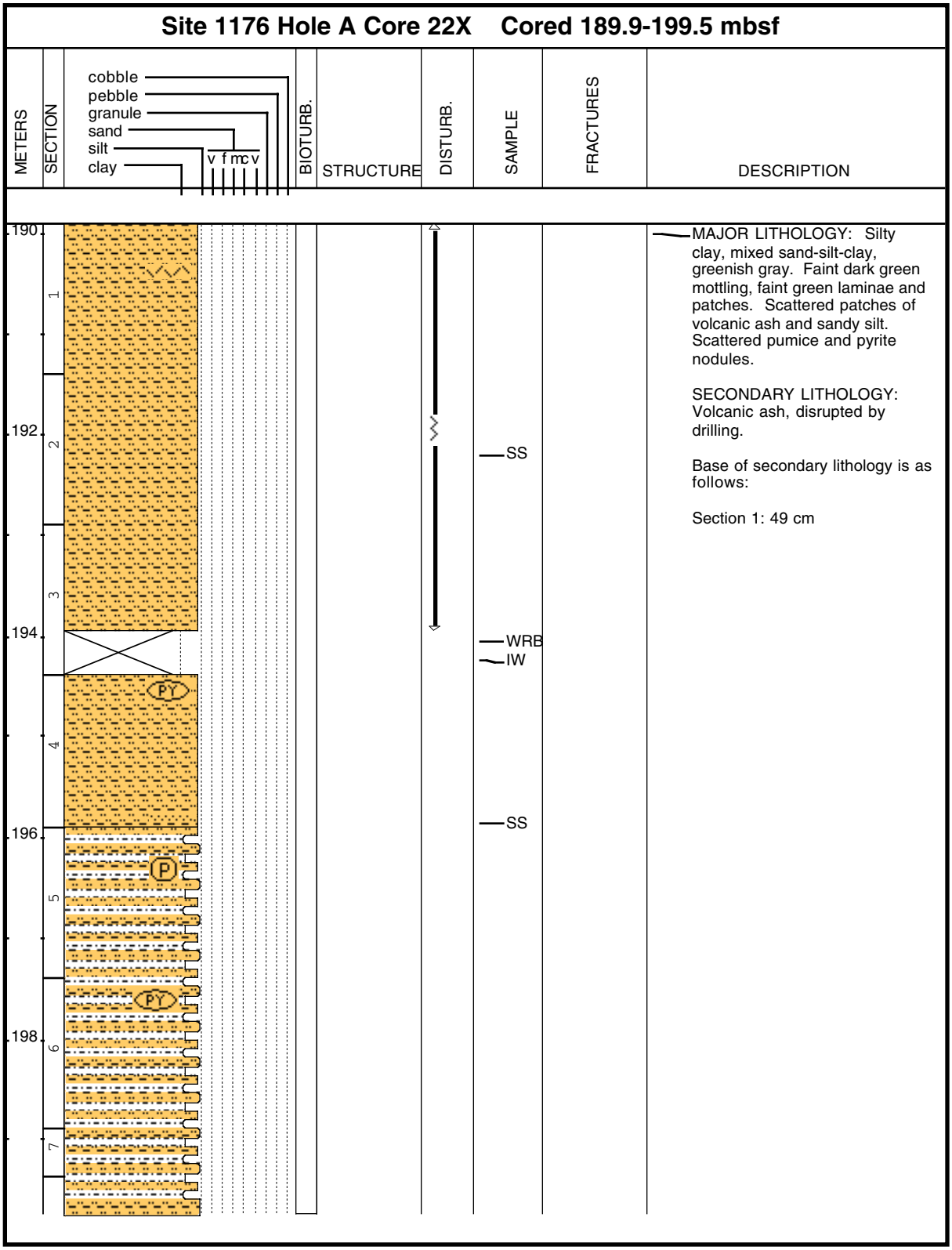
Core Photo


Site 1176 Hole A Core 20X Cored 170.6-180.2 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
172
1
2
SS
MAJOR LITHOLOGY: Silty clay, greenish gray. Mottled with green patches.
SECONDARY LITHOLOGY: Volcanic ash, pale gray. Gradational top with silty clay.
Bases of secondary lithology are as follows:
Section 1: 150 cm
Section 2: 28 cm
Section 3 (CC): 8 cm

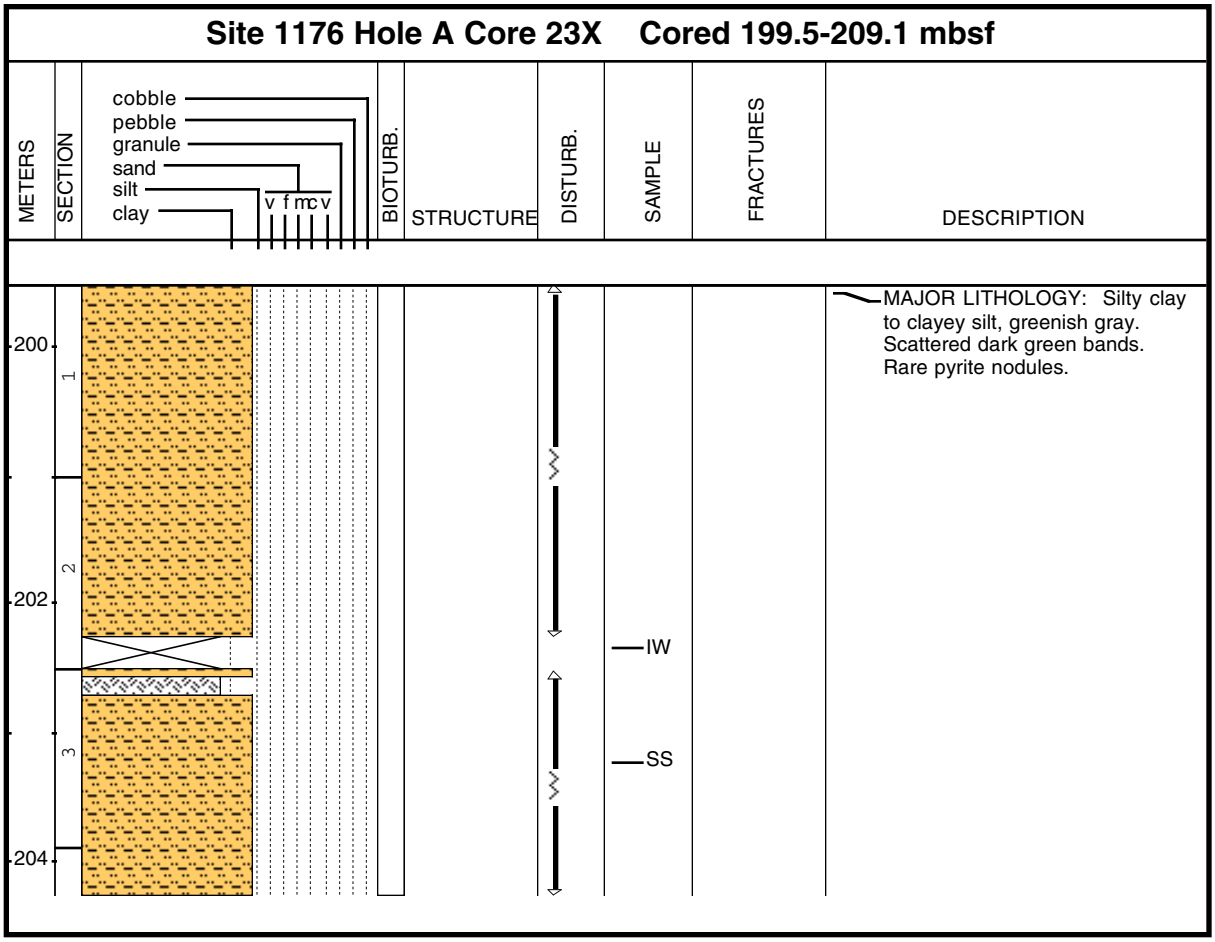
Core Photo


Site 1176 Hole A Core 21X Cored 180.2-189.9 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
182
184
186
188
1
2
3
4
5
6
PY
PY
F
F
F
SS
SS
IW
MAJOR LITHOLOGY: Silty clay, greenish gray. Mottled, faint green laminae and patches. Scattered pyrite-rimmed nodules.
SECONDARY LITHOLOGY: Volcanic ash, white, pale to dark gray, greenish gray, salt and pepper. Sharp bases, diffuse tops, fining upward.
Bases of secondary lithology are as follows:
Section 2: 51 cm
Section 4: 111, 127 cm
Section 5: 11, 45 cm

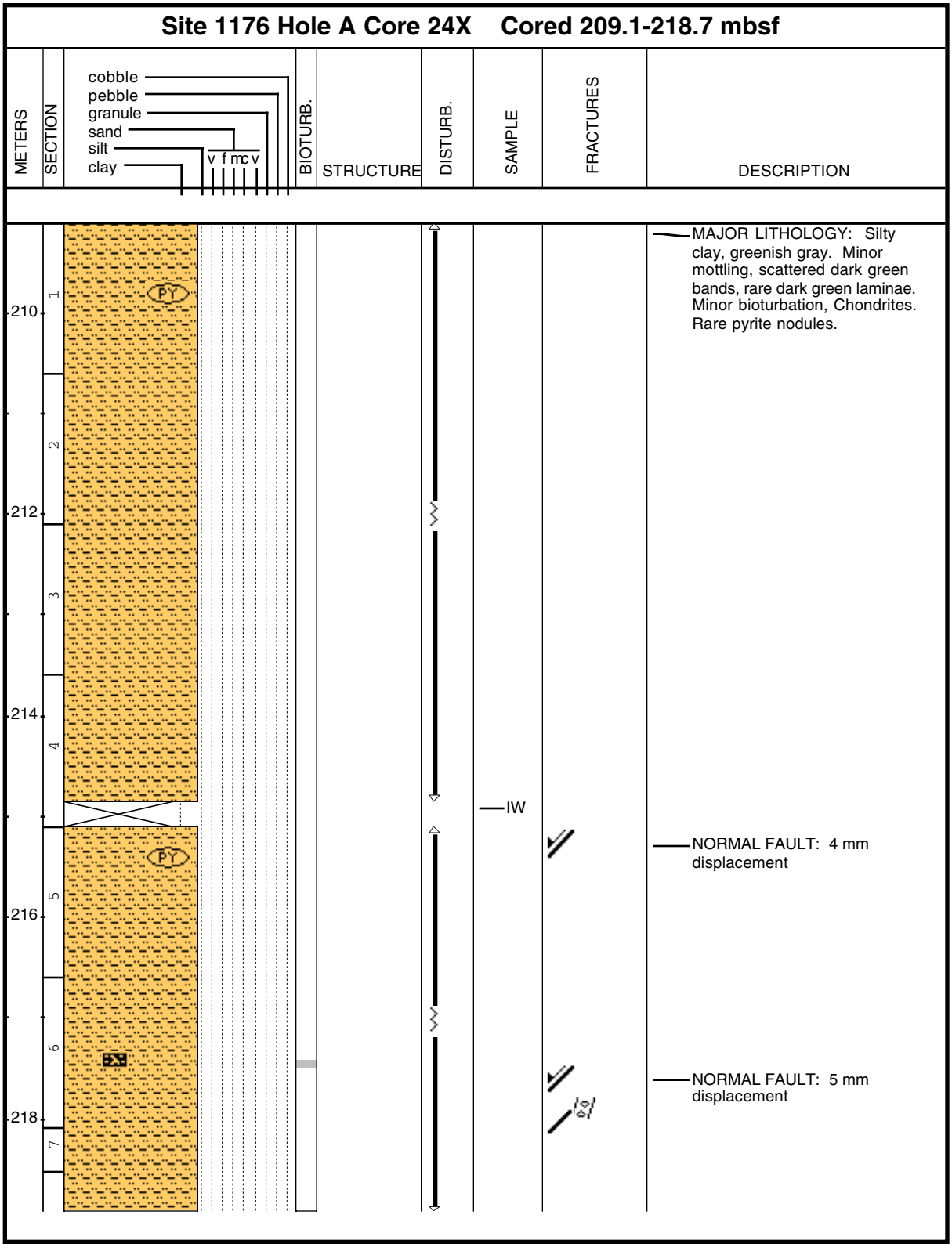
Core Photo


Site 1176 Hole A Core 22X Cored 189.9-199.5 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
190
192
194
196
198
1
2
3
4
5
6
7
PY
P
PY
SS
WRB
IW
SS
MAJOR LITHOLOGY: Silty clay, mixed sand-silt-clay, greenish gray. Faint dark green mottling, faint green laminae and patches. Scattered patches of volcanic ash and sandy silt. Scattered pumice and pyrite nodules.
SECONDARY LITHOLOGY: Volcanic ash, disrupted by drilling.
Base of secondary lithology is as follows:
Section 1: 49 cm

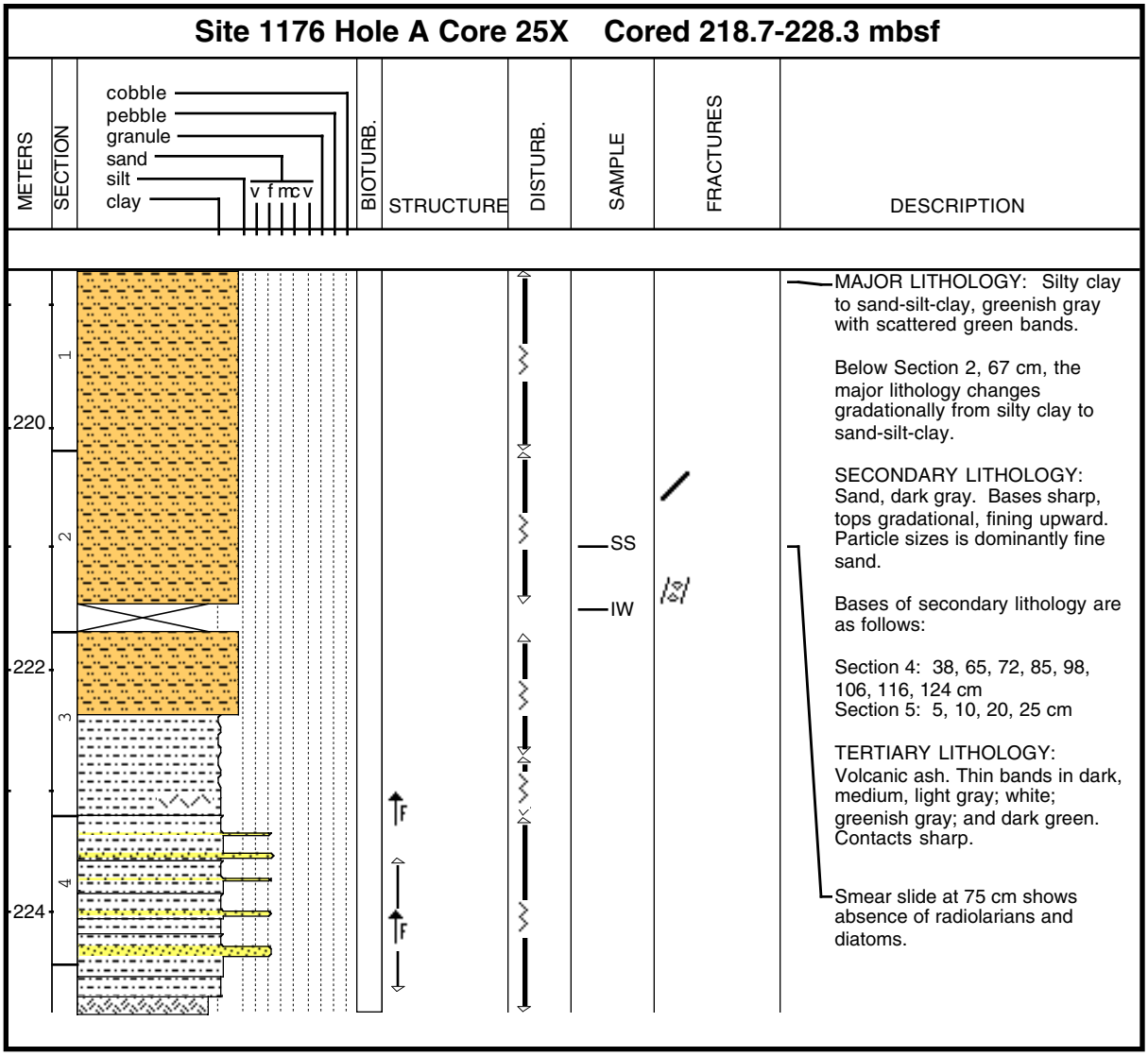
Core Photo


Site 1176 Hole A Core 23X Cored 199.5-209.1 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
200
202
204
1
2
3
IW
SS
MAJOR LITHOLOGY: Silty clay to clayey silt, greenish gray. Scattered dark green bands. Rare pyrite nodules.

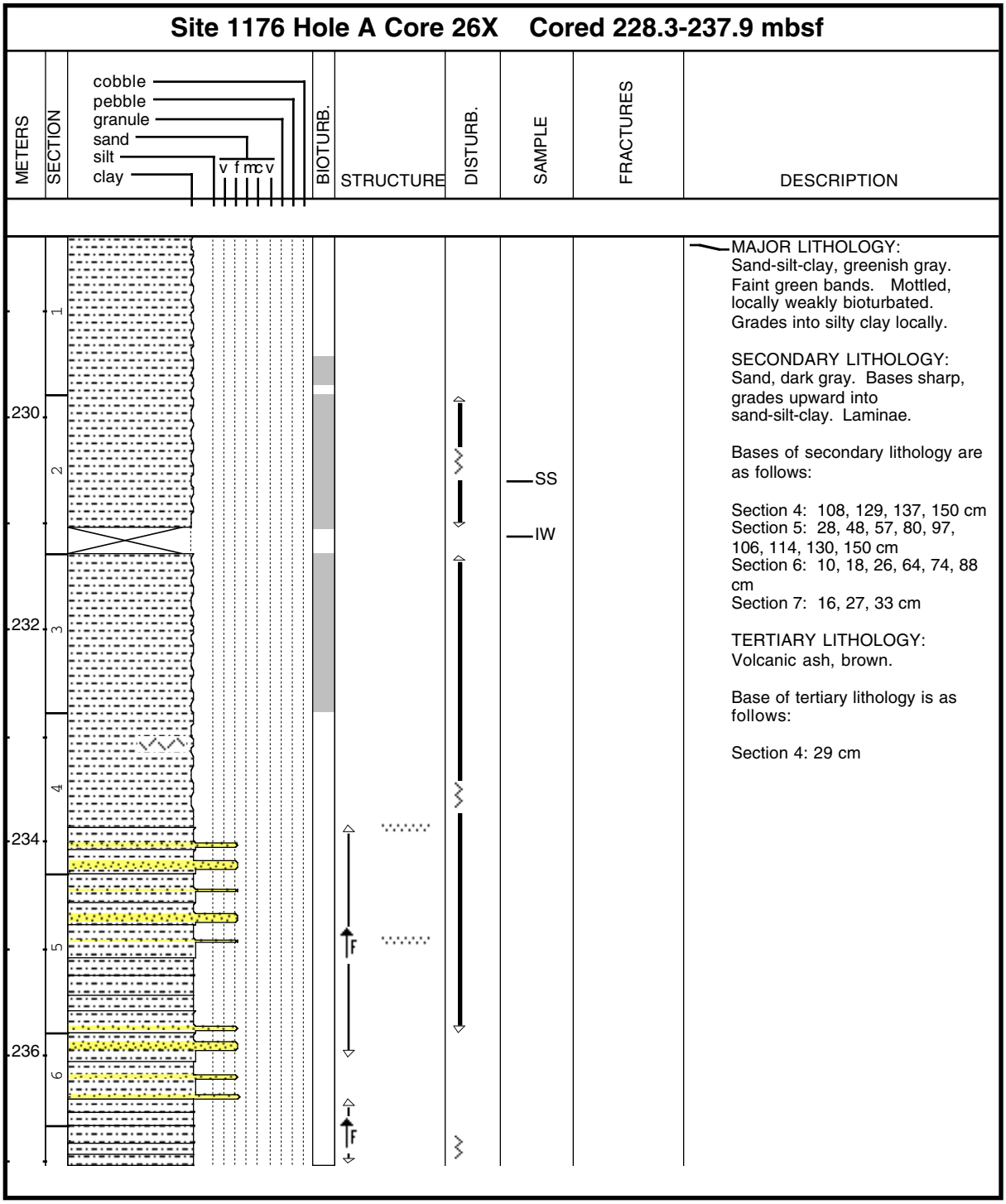
Core Photo


Site 1176 Hole A Core 24X Cored 209.1-218.7 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
210
212
214
216
218
1
2
3
4
5
6
7
PY
PY
IW
MAJOR LITHOLOGY: Silty clay, greenish gray. Minor mottling, scattered dark green bands, rare dark green laminae. Minor bioturbation, Chondrites. Rare pyrite nodules.
NORMAL FAULT: 4 mm displacement
NORMAL FAULT: 5 mm displacement

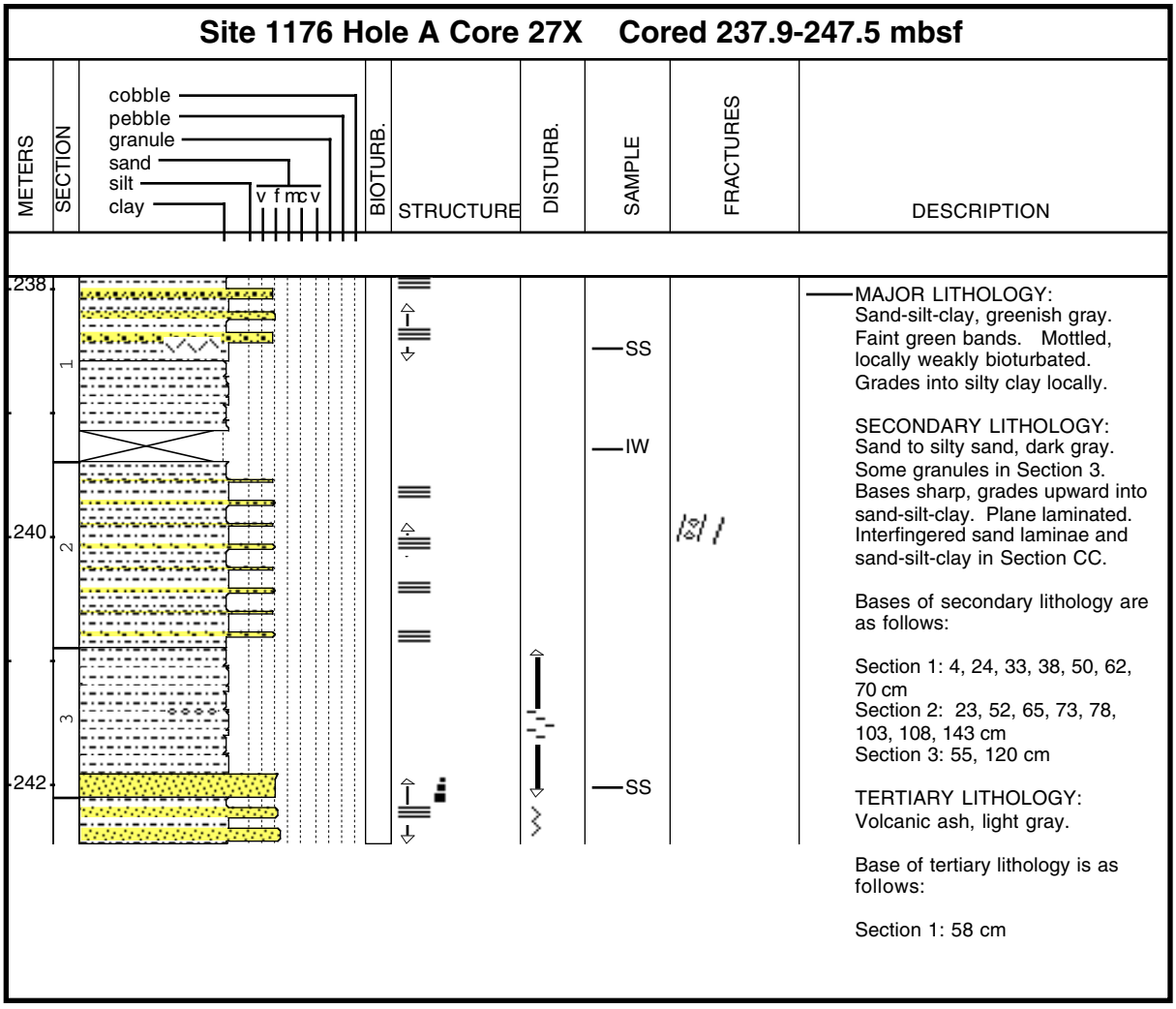
Core Photo


Site 1176 Hole A Core 25X Cored 218.7-228.3 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
220
222
224
1
2
3
4
SS
IW
F
F
MAJOR LITHOLOGY: Silty clay to sand-silt-clay, greenish gray with scattered green bands.
Below Section 2, 67 cm, the major lithology changes gradationally from silty clay to sand-silt-clay.
SECONDARY LITHOLOGY: Sand, dark gray. Bases sharp, tops gradational, fining upward. Particle sizes is dominantly fine sand.
Bases of secondary lithology are as follows:
Section 4: 38, 65, 72, 85, 98, 106, 116, 124 cm
Section 5: 5, 10, 20, 25 cm
TERTIARY LITHOLOGY: Volcanic ash. Thin bands in dark, medium, light gray; white; greenish gray; and dark green. Contacts sharp.
Smear slide at 75 cm shows absence of radiolarians and diatoms.

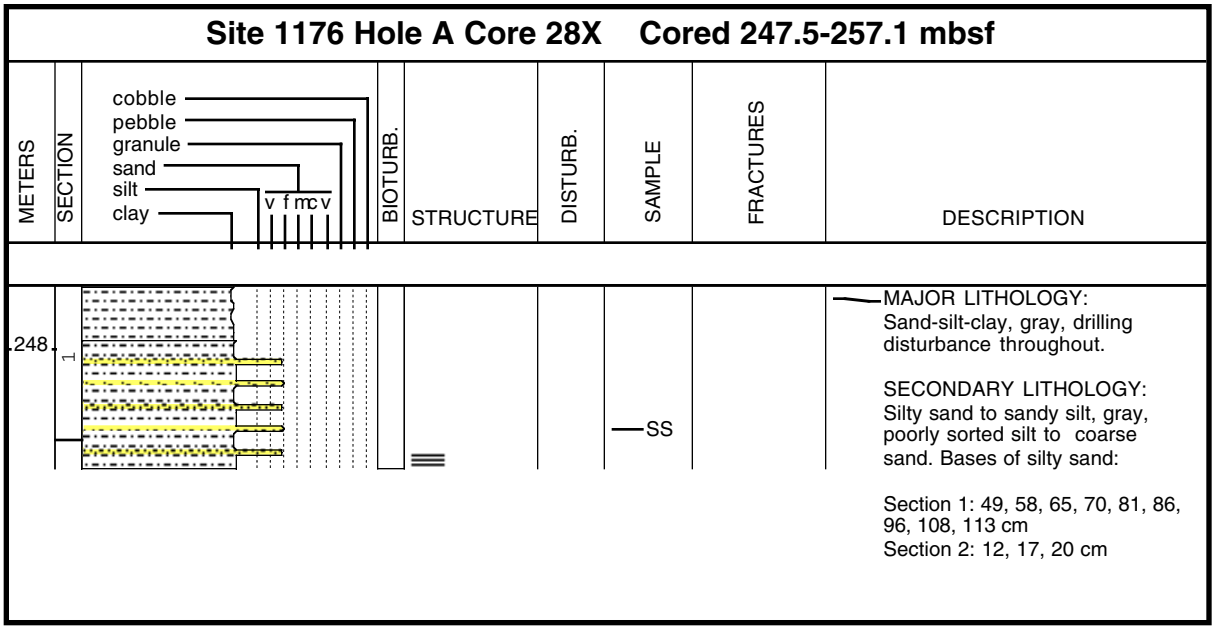
Core Photo


Site 1176 Hole A Core 26X Cored 228.3-237.9 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
230
232
234
236
1
2
3
4
5
6
SS
IW
F
F
MAJOR LITHOLOGY:
Sand-silt-clay, greenish gray. Faint green bands. Mottled, locally weakly bioturbated. Grades into silty clay locally.
SECONDARY LITHOLOGY:
Sand, dark gray. Bases sharp, grades upward into sand-silt-clay. Laminae.
Bases of secondary lithology are as follows:
Section 4: 108, 129, 137, 150 cm
Section 5: 28, 48, 57, 80, 97, 106, 114, 130, 150 cm
Section 6: 10, 18, 26, 64, 74, 88 cm
Section 7: 16, 27, 33 cm
TERTIARY LITHOLOGY:
Volcanic ash, brown.
Base of tertiary lithology is as follows:
Section 4: 29 cm

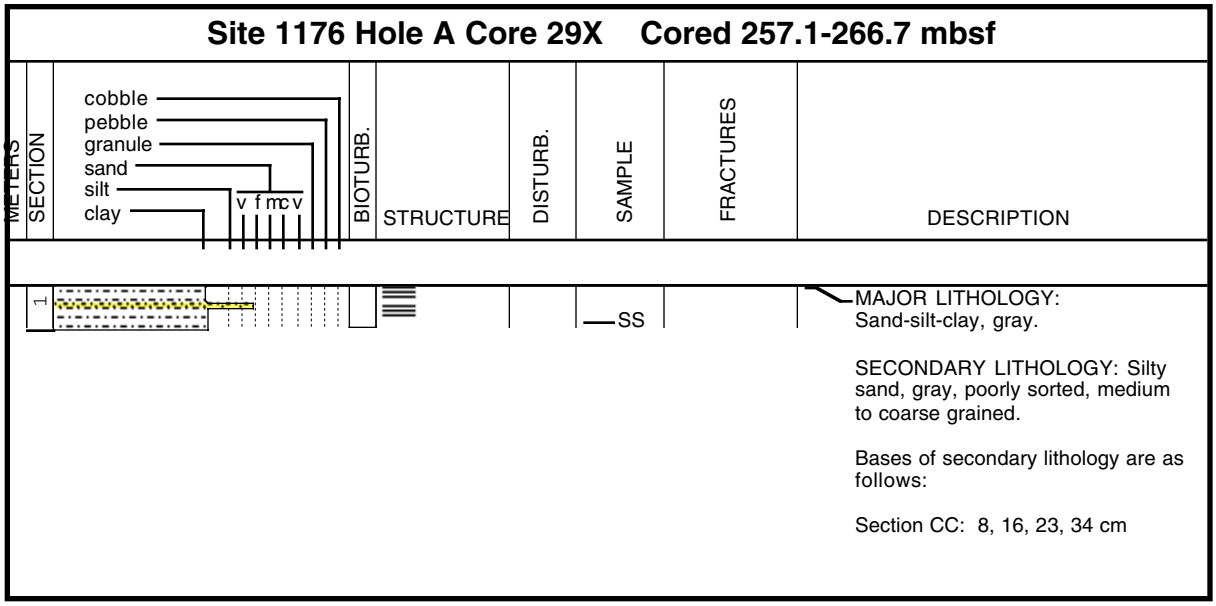
Core Photo


Site 1176 Hole A Core 27X Cored 237.9-247.5 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
238
240
242
1
2
3
SS
IW
SS
MAJOR LITHOLOGY:
Sand-silt-clay, greenish gray. Faint green bands. Mottled, locally weakly bioturbated. Grades into silty clay locally.
SECONDARY LITHOLOGY:
Sand to silty sand, dark gray. Some granules in Section 3. Bases sharp, grades upward into sand-silt-clay. Plane laminated. Interfingered sand laminae and sand-silt-clay in Section CC.
Bases of secondary lithology are as follows:
Section 1: 4, 24, 33, 38, 50, 62, 70 cm
Section 2: 23, 52, 65, 73, 78, 103, 108, 143 cm
Section 3: 55, 120 cm
TERTIARY LITHOLOGY:
Volcanic ash, light gray.
Base of tertiary lithology is as follows:
Section 1: 58 cm

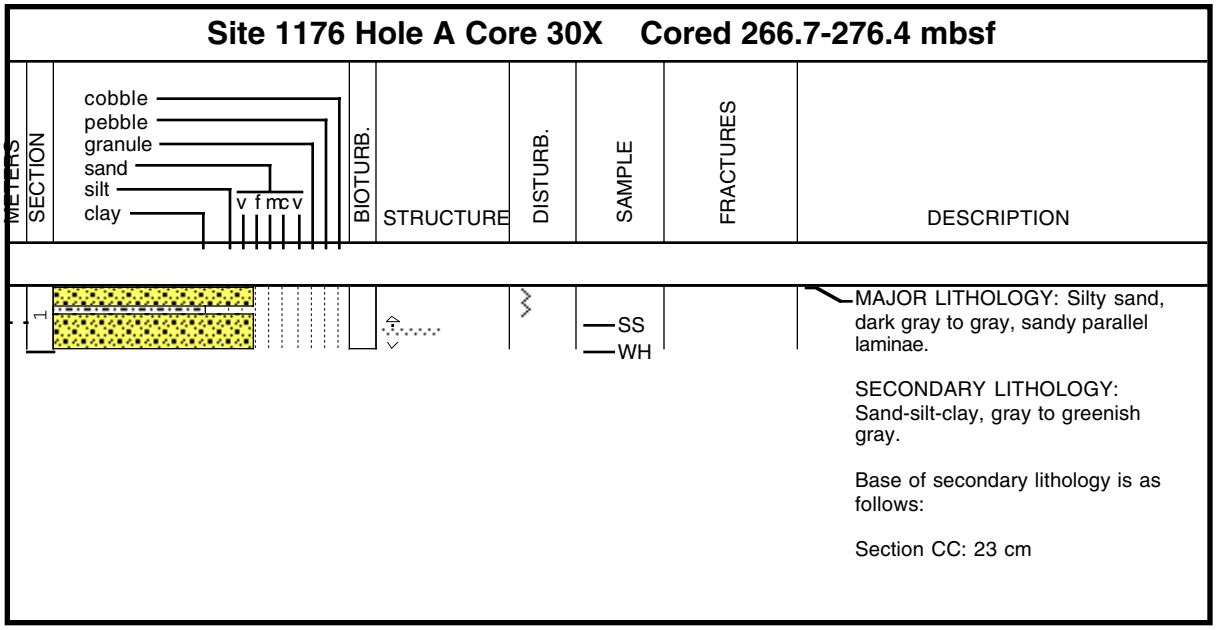
Core Photo


Site 1176 Hole A Core 28X Cored 247.5-257.1 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
248
1
SS
MAJOR LITHOLOGY:
Sand-silt-clay, gray, drilling disturbance throughout.
SECONDARY LITHOLOGY:
Silty sand to sandy silt, gray, poorly sorted silt to coarse sand. Bases of silty sand:
Section 1: 49, 58, 65, 70, 81, 86, 96, 108, 113 cm
Section 2: 12, 17, 20 cm

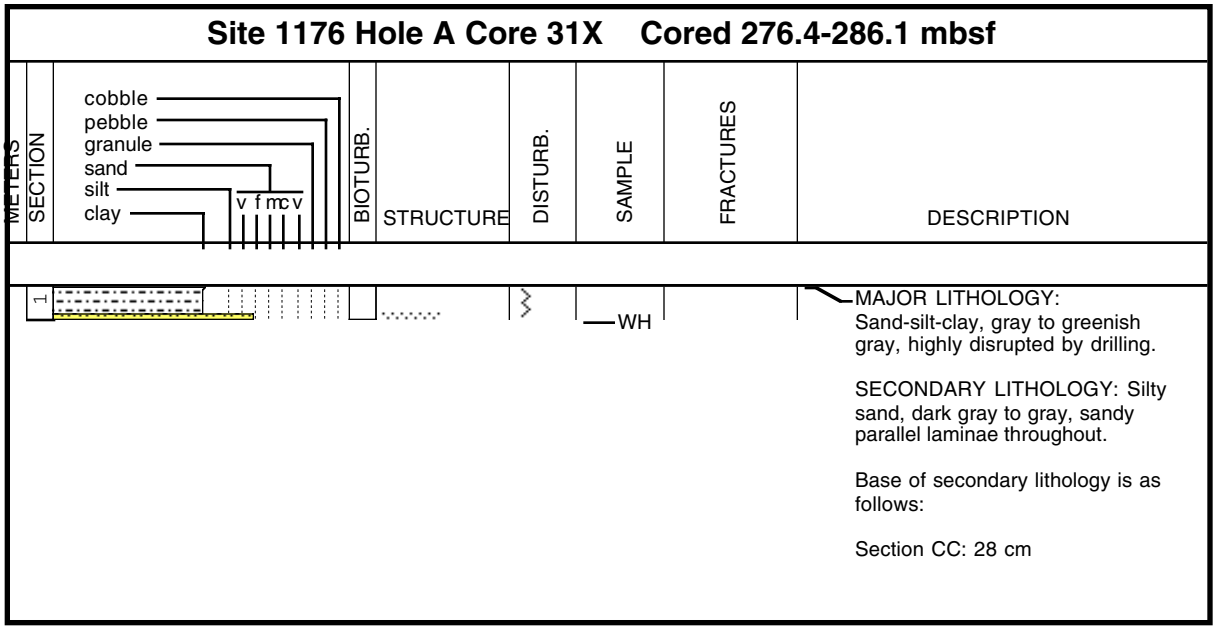
Core Photo


Site 1176 Hole A Core 29X Cored 257.1-266.7 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
SS
MAJOR LITHOLOGY:
Sand-silt-clay, gray.
SECONDARY LITHOLOGY: Silty sand, gray, poorly sorted, medium to coarse grained.
Bases of secondary lithology are as follows:
Section CC: 8, 16, 23, 34 cm

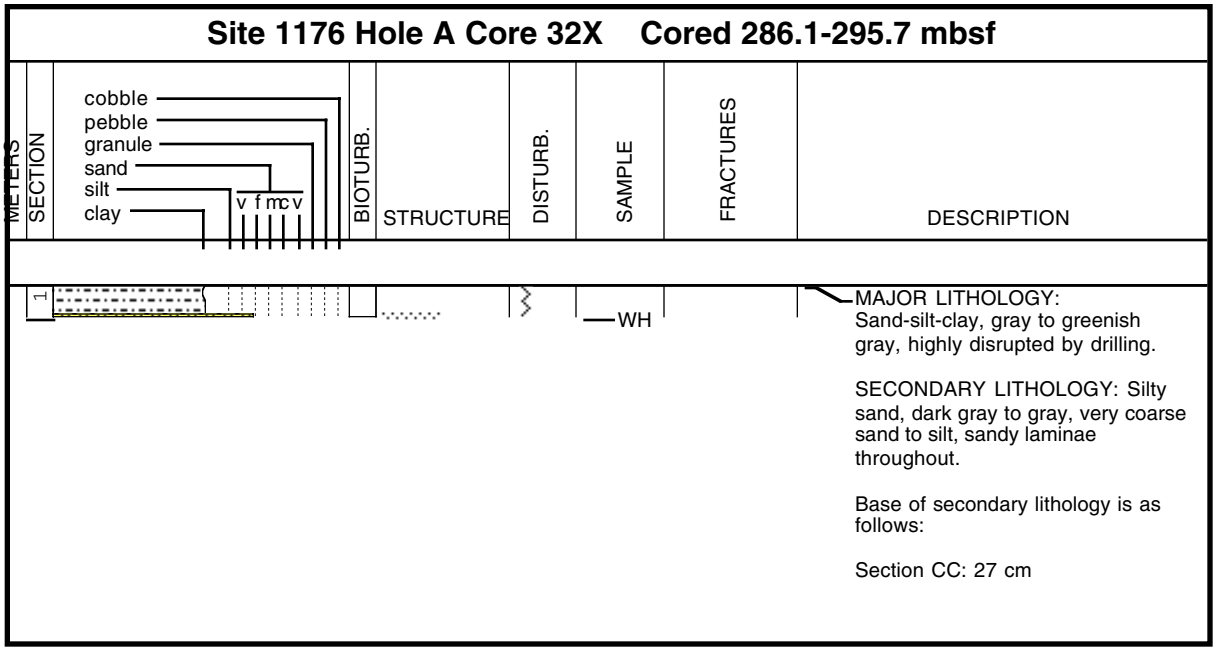
Core Photo


Site 1176 Hole A Core 30X Cored 266.7-276.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
SS
WH
MAJOR LITHOLOGY: Silty sand, dark gray to gray, sandy parallel laminae.
SECONDARY LITHOLOGY: Sand-silt-clay, gray to greenish gray.
Base of secondary lithology is as follows:
Section CC: 23 cm

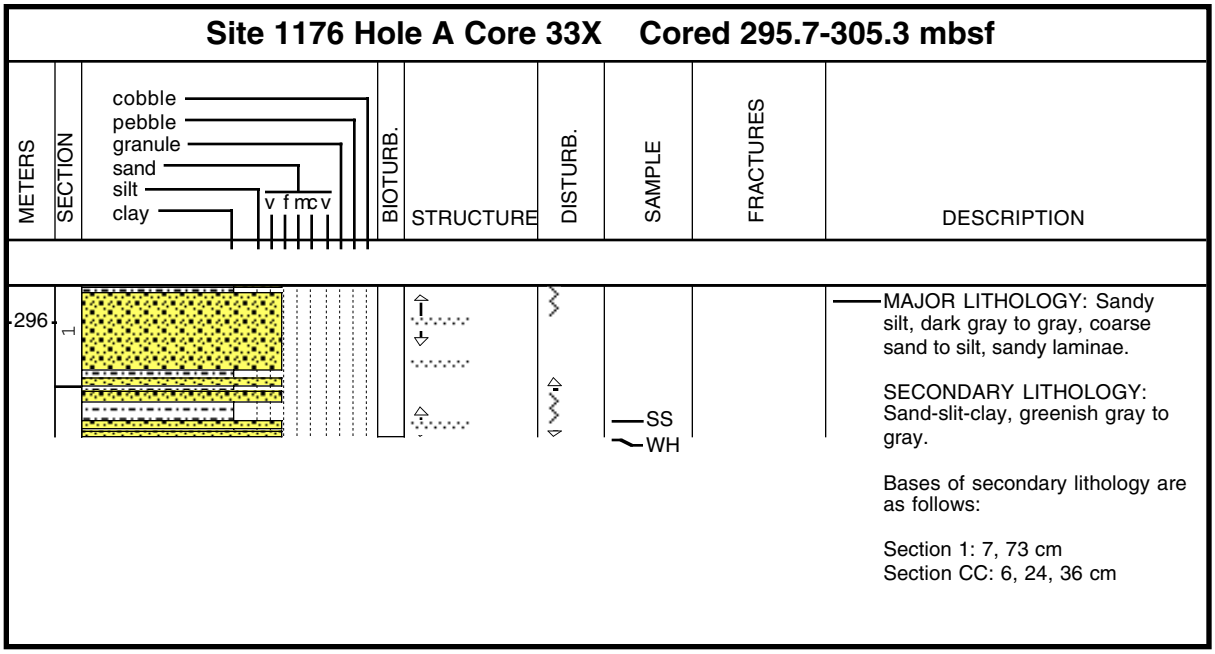
Core Photo


Site 1176 Hole A Core 31X Cored 276.4-286.1 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
WH
MAJOR LITHOLOGY:
Sand-silt-clay, gray to greenish gray, highly disrupted by drilling.
SECONDARY LITHOLOGY: Silty sand, dark gray to gray, sandy parallel laminae throughout.
Base of secondary lithology is as follows:
Section CC: 28 cm

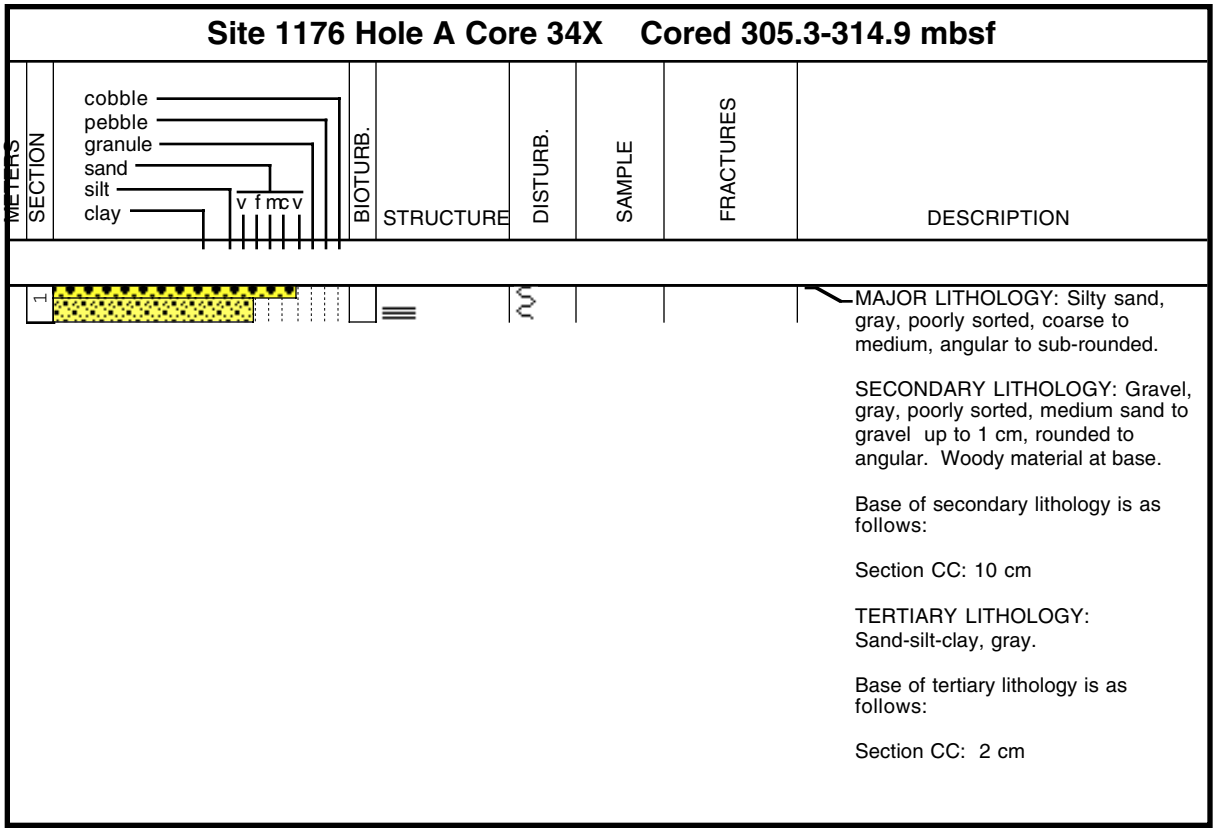
Core Photo


Site 1176 Hole A Core 32X Cored 286.1-295.7 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
WH
MAJOR LITHOLOGY:
Sand-silt-clay, gray to greenish gray, highly disrupted by drilling.
SECONDARY LITHOLOGY: Silty sand, dark gray to gray, very coarse sand to silt, sandy laminae throughout.
Base of secondary lithology is as follows:
Section CC: 27 cm

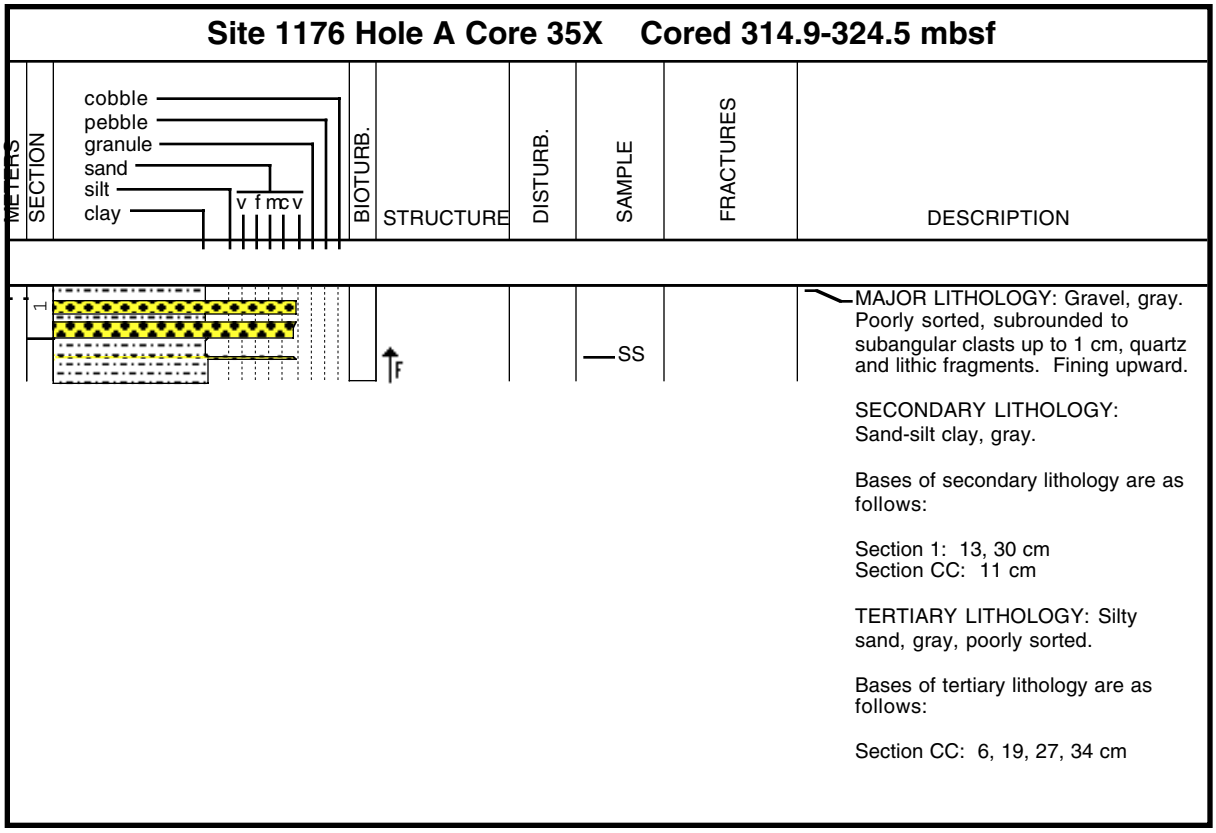
Core Photo


Site 1176 Hole A Core 33X Cored 295.7-305.3 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
296
1
SS
WH
MAJOR LITHOLOGY: Sandy silt, dark gray to gray, coarse sand to silt, sandy laminae.
SECONDARY LITHOLOGY: Sand-slit-clay, greenish gray to gray.
Bases of secondary lithology are as follows:
Section 1: 7, 73 cm
Section CC: 6, 24, 36 cm

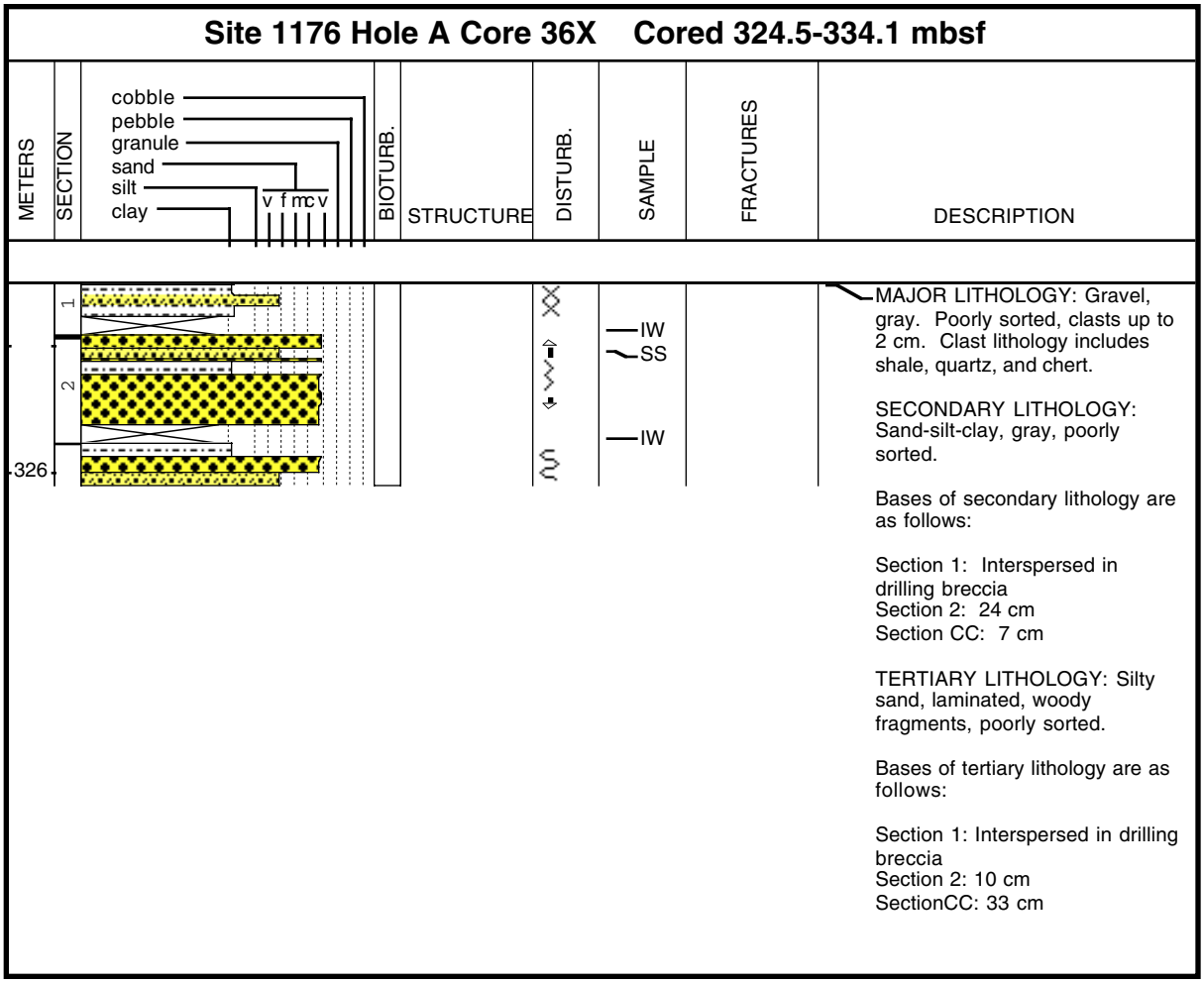
Core Photo


Site 1176 Hole A Core 34X Cored 305.3-314.9 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
MAJOR LITHOLOGY: Silty sand, gray, poorly sorted, coarse to medium, angular to sub-rounded.
SECONDARY LITHOLOGY: Gravel, gray, poorly sorted, medium sand to gravel up to 1 cm, rounded to angular. Woody material at base.
Base of secondary lithology is as follows:
Section CC: 10 cm
TERTIARY LITHOLOGY: Sand-silt-clay, gray.
Base of tertiary lithology is as follows:
Section CC: 2 cm

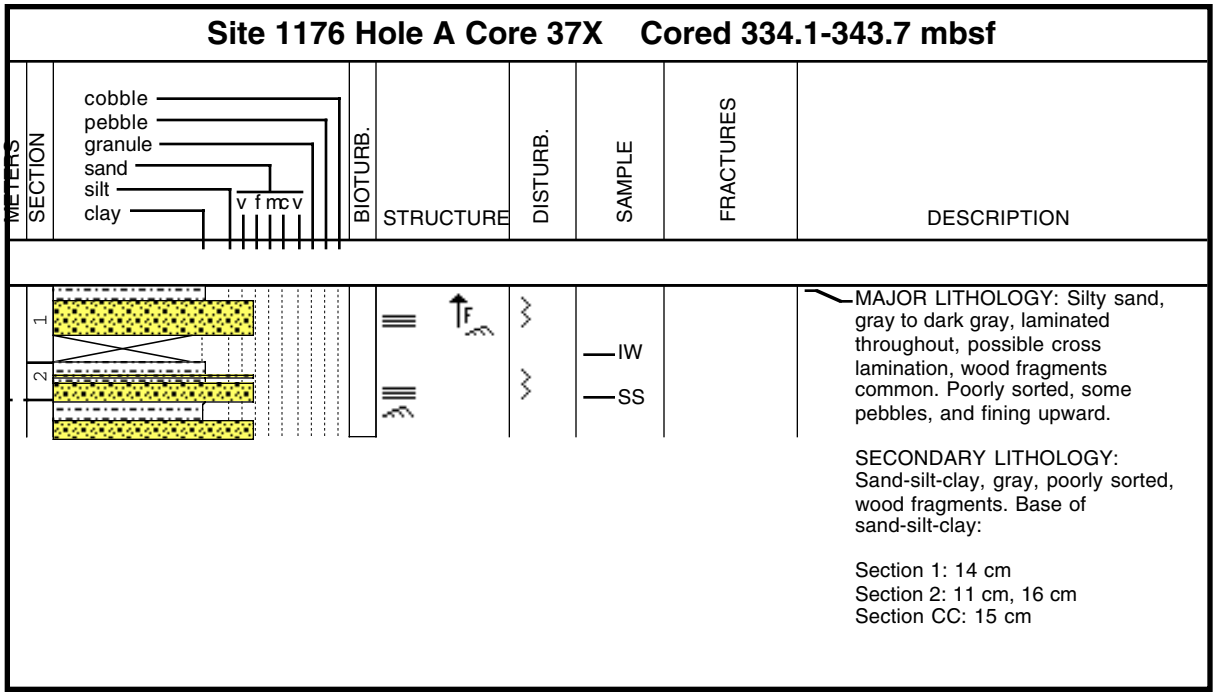
Core Photo


Site 1176 Hole A Core 35X Cored 314.9-324.5 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
F
SS
MAJOR LITHOLOGY: Gravel, gray. Poorly sorted, subrounded to subangular clasts up to 1 cm, quartz and lithic fragments. Fining upward.
SECONDARY LITHOLOGY: Sand-silt clay, gray.
Bases of secondary lithology are as follows:
Section 1: 13, 30 cm
Section CC: 11 cm
TERTIARY LITHOLOGY: Silty sand, gray, poorly sorted.
Bases of tertiary lithology are as follows:
Section CC: 6, 19, 27, 34 cm

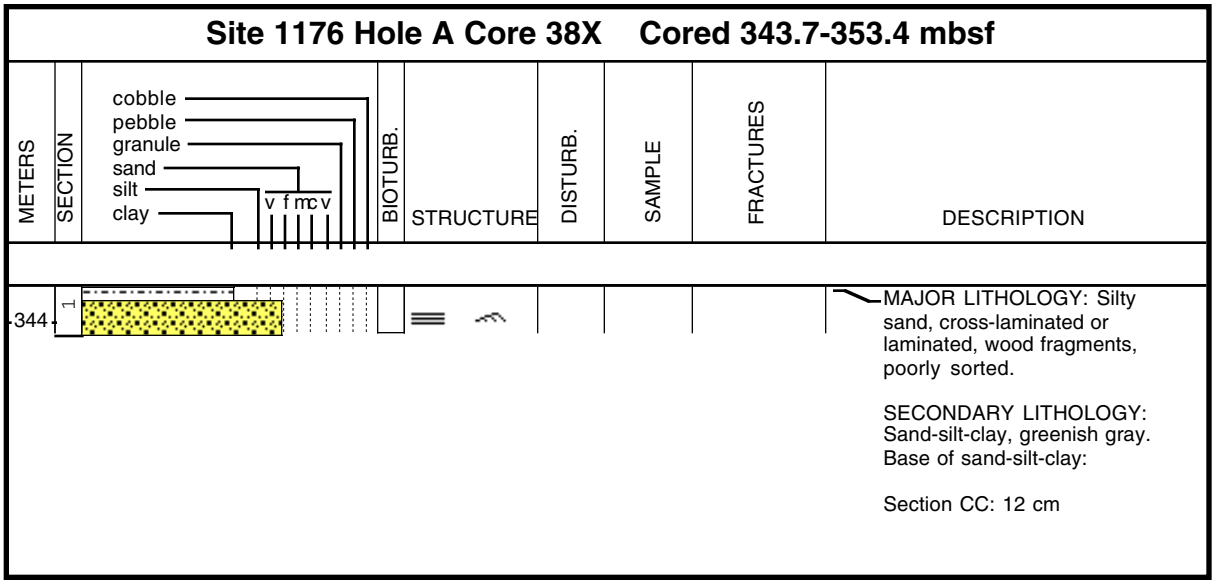
Core Photo


Site 1176 Hole A Core 36X Cored 324.5-334.1 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
2
326
IW
SS
IW
MAJOR LITHOLOGY: Gravel, gray. Poorly sorted, clasts up to 2 cm. Clast lithology includes shale, quartz, and chert.
SECONDARY LITHOLOGY: Sand-silt-clay, gray, poorly sorted.
Bases of secondary lithology are as follows:
Section 1: Interspersed in drilling breccia
Section 2: 24 cm
Section CC: 7 cm
TERTIARY LITHOLOGY: Silty sand, laminated, woody fragments, poorly sorted.
Bases of tertiary lithology are as follows:
Section 1: Interspersed in drilling breccia
Section 2: 10 cm
SectionCC: 33 cm

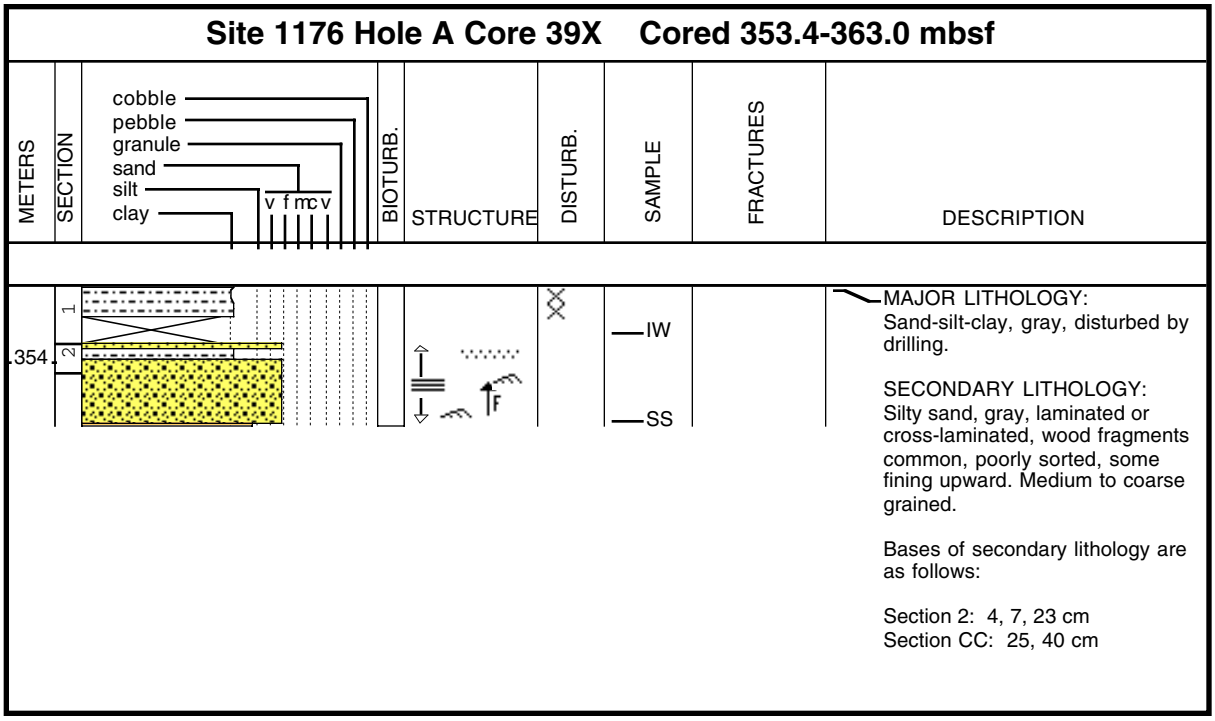
Core Photo


Site 1176 Hole A Core 37X Cored 334.1-343.7 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
2
F
IW
SS
MAJOR LITHOLOGY: Silty sand, gray to dark gray, laminated throughout, possible cross lamination, wood fragments common. Poorly sorted, some pebbles, and fining upward.
SECONDARY LITHOLOGY: Sand-silt-clay, gray, poorly sorted, wood fragments. Base of sand-silt-clay:
Section 1: 14 cm
Section 2: 11 cm, 16 cm
Section CC: 15 cm

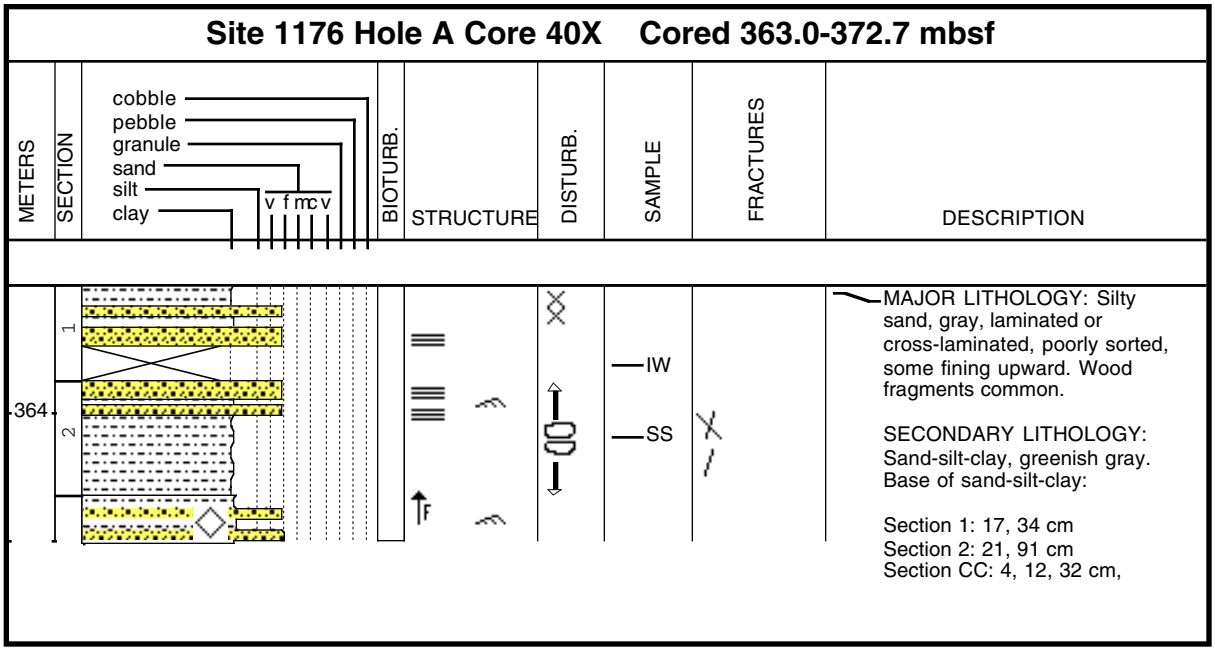
Core Photo


Site 1176 Hole A Core 38X Cored 343.7-353.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
344
1
MAJOR LITHOLOGY: Silty sand, cross-laminated or laminated, wood fragments, poorly sorted.
SECONDARY LITHOLOGY: Sand-silt-clay, greenish gray. Base of sand-silt-clay:
Section CC: 12 cm

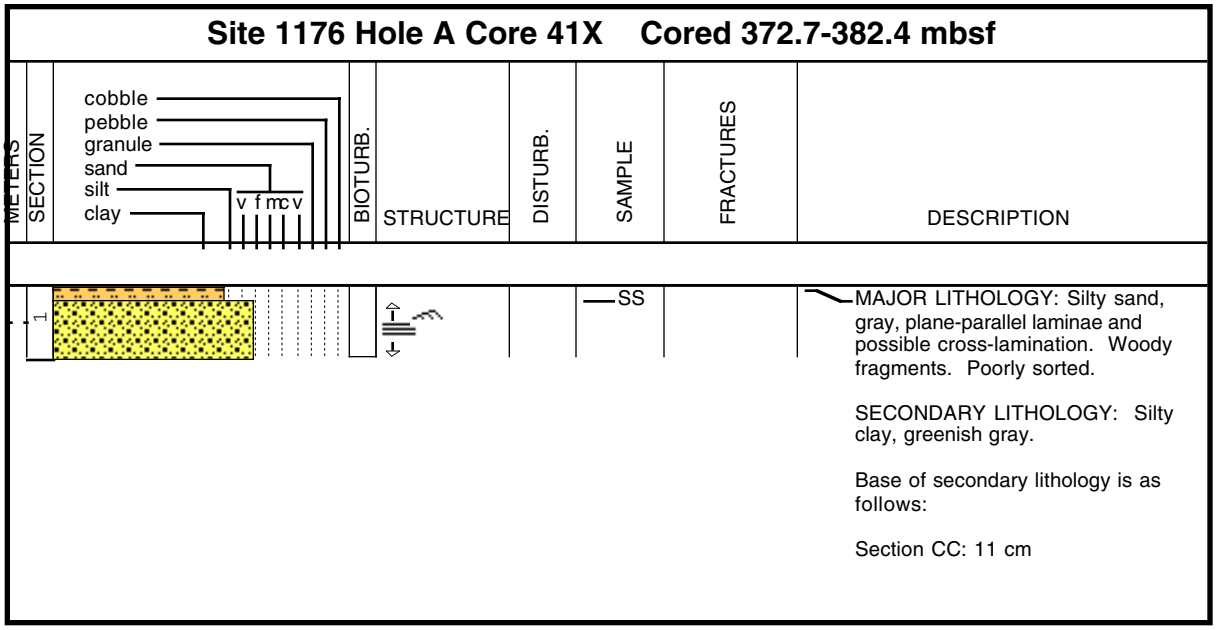
Core Photo


Site 1176 Hole A Core 39X Cored 353.4-363.0 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
354
1
2
IW
SS
F
MAJOR LITHOLOGY:
Sand-silt-clay, gray, disturbed by drilling.
SECONDARY LITHOLOGY:
Silty sand, gray, laminated or cross-laminated, wood fragments common, poorly sorted, some fining upward. Medium to coarse grained.
Bases of secondary lithology are as follows:
Section 2: 4, 7, 23 cm
Section CC: 25, 40 cm

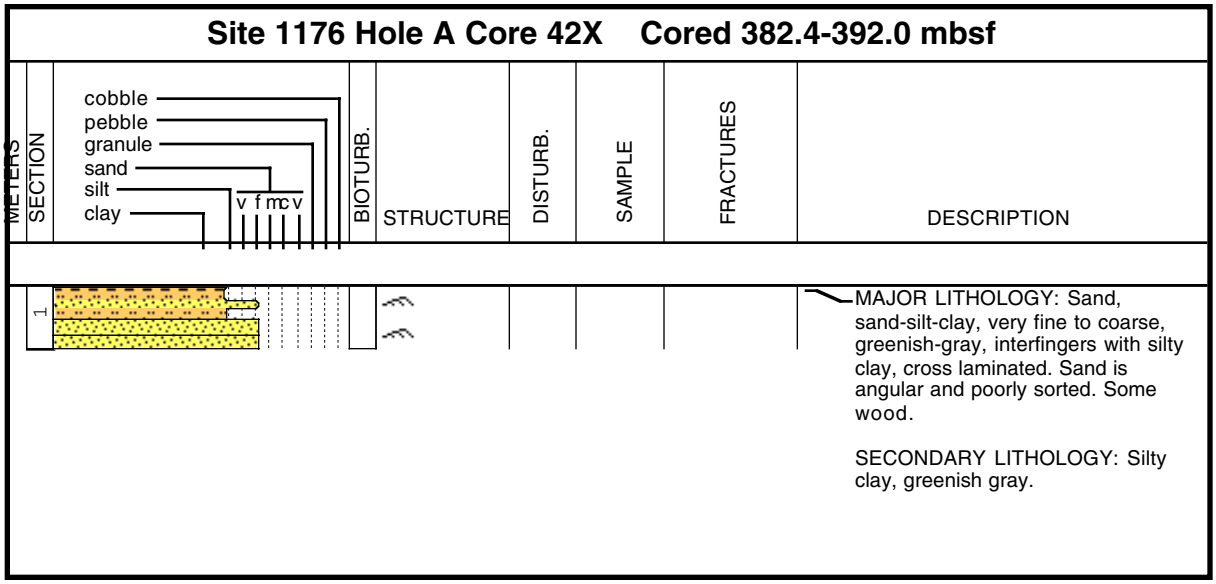
Core Photo


Site 1176 Hole A Core 40X Cored 363.0-372.7 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
364
1
2
IW
SS
F
MAJOR LITHOLOGY: Silty sand, gray, laminated or cross-laminated, poorly sorted, some fining upward. Wood fragments common.
SECONDARY LITHOLOGY: Sand-silt-clay, greenish gray. Base of sand-silt-clay:
Section 1: 17, 34 cm
Section 2: 21, 91 cm
Section CC: 4, 12, 32 cm,

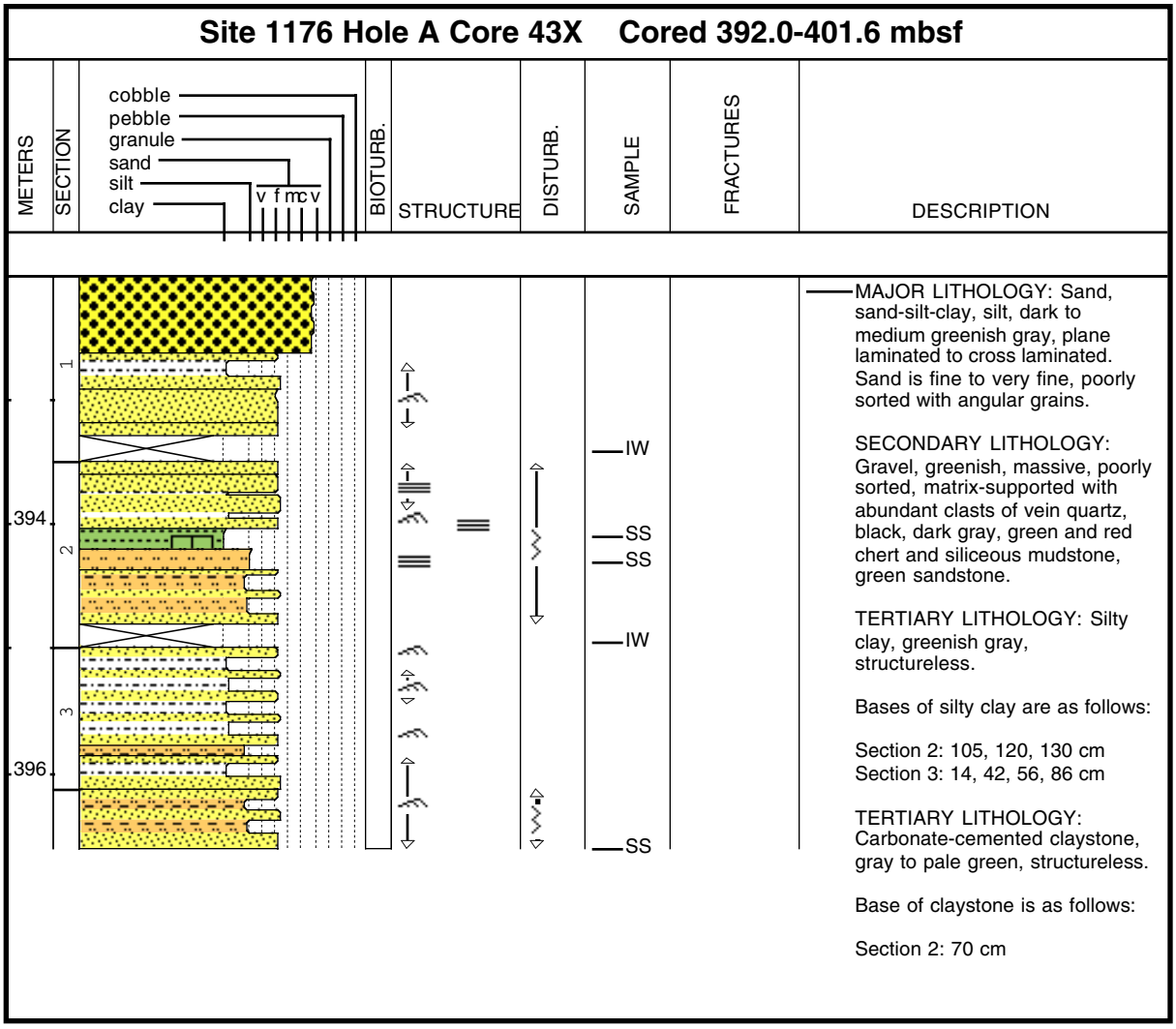
Core Photo


Site 1176 Hole A Core 41X Cored 372.7-382.4 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
SS
MAJOR LITHOLOGY: Silty sand, gray, plane-parallel laminae and possible cross-lamination. Woody fragments. Poorly sorted.
SECONDARY LITHOLOGY: Silty clay, greenish gray.
Base of secondary lithology is as follows:
Section CC: 11 cm

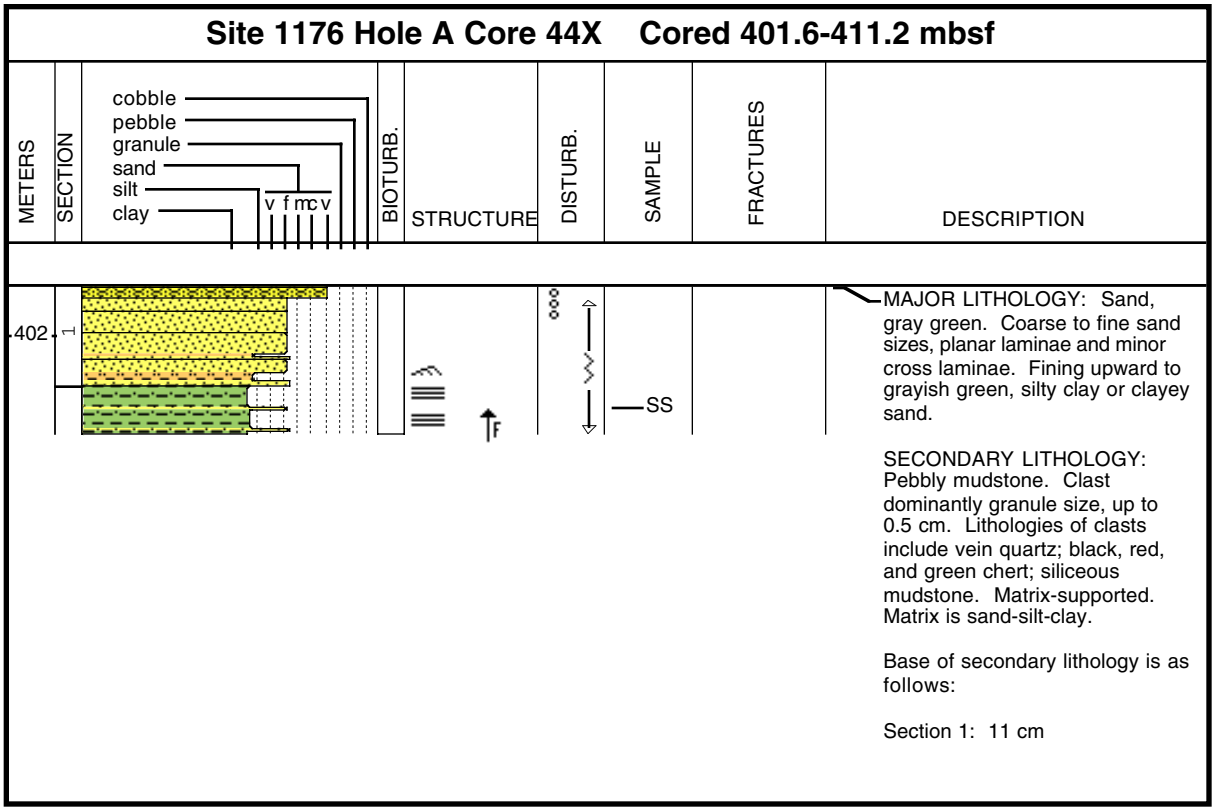
Core Photo


Site 1176 Hole A Core 42X Cored 382.4-392.0 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
MAJOR LITHOLOGY: Sand, sand-silt-clay, very fine to coarse, greenish-gray, interfingers with silty clay, cross laminated. Sand is angular and poorly sorted. Some wood.
SECONDARY LITHOLOGY: Silty clay, greenish gray.

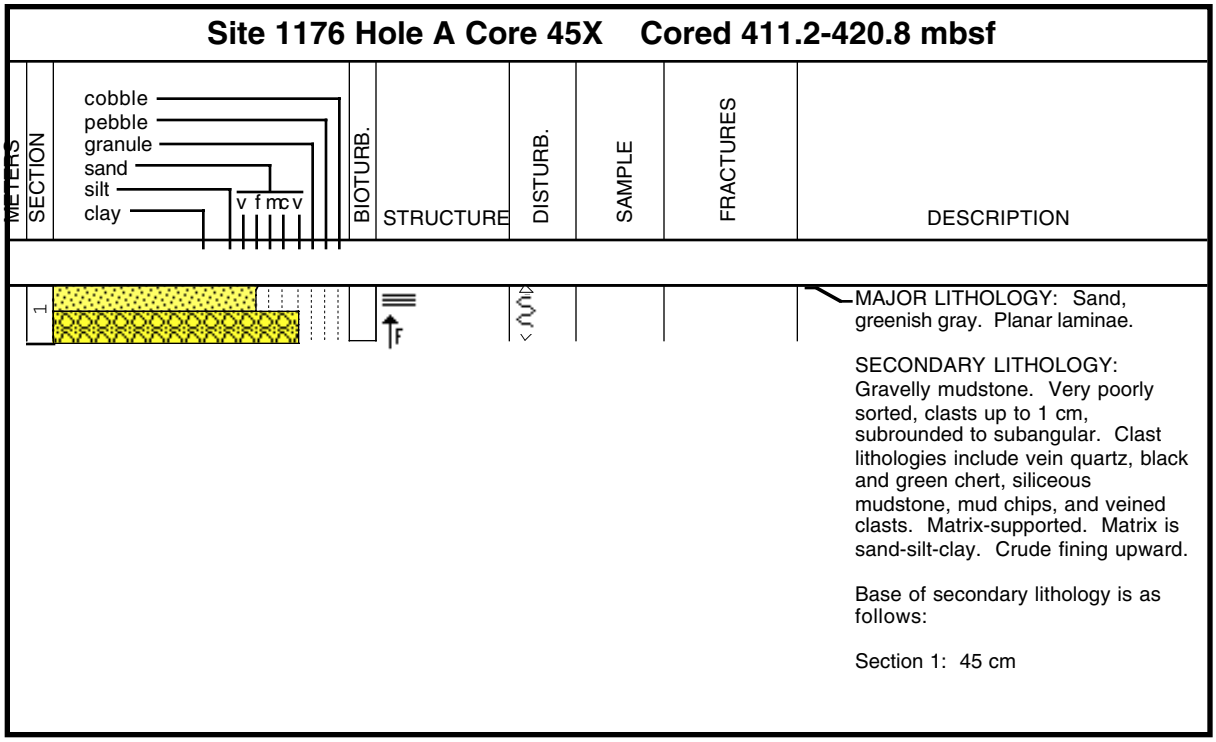
Core Photo


Site 1176 Hole A Core 43X Cored 392.0-401.6 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
394
396
1
2
3
IW
SS
SS
IW
SS
MAJOR LITHOLOGY: Sand, sand-silt-clay, silt, dark to medium greenish gray, plane laminated to cross laminated. Sand is fine to very fine, poorly sorted with angular grains.
SECONDARY LITHOLOGY: Gravel, greenish, massive, poorly sorted, matrix-supported with abundant clasts of vein quartz, black, dark gray, green and red chert and siliceous mudstone, green sandstone.
TERTIARY LITHOLOGY: Silty clay, greenish gray, structureless.
Bases of silty clay are as follows:
Section 2: 105, 120, 130 cm
Section 3: 14, 42, 56, 86 cm
TERTIARY LITHOLOGY: Carbonate-cemented claystone, gray to pale green, structureless.
Base of claystone is as follows:
Section 2: 70 cm

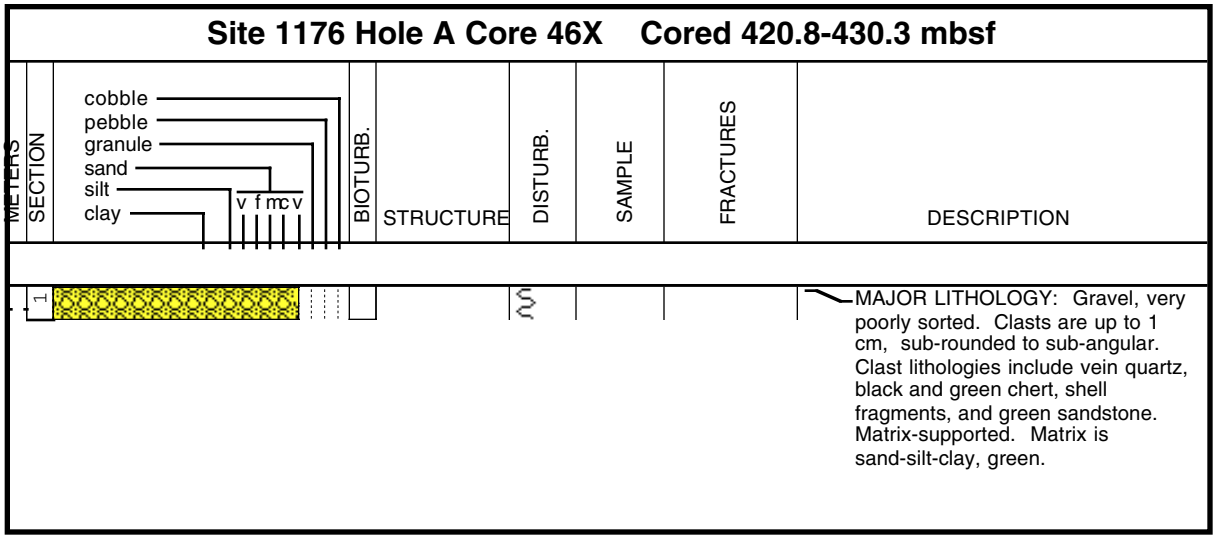
Core Photo


Site 1176 Hole A Core 44X Cored 401.6-411.2 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
402
1
SS
MAJOR LITHOLOGY: Sand, gray green. Coarse to fine sand sizes, planar laminae and minor cross laminae. Fining upward to grayish green, silty clay or clayey sand.
SECONDARY LITHOLOGY: Pebbly mudstone. Clast dominantly granule size, up to 0.5 cm. Lithologies of clasts include vein quartz; black, red, and green chert; siliceous mudstone. Matrix-supported. Matrix is sand-silt-clay.
Base of secondary lithology is as follows:
Section 1: 11 cm

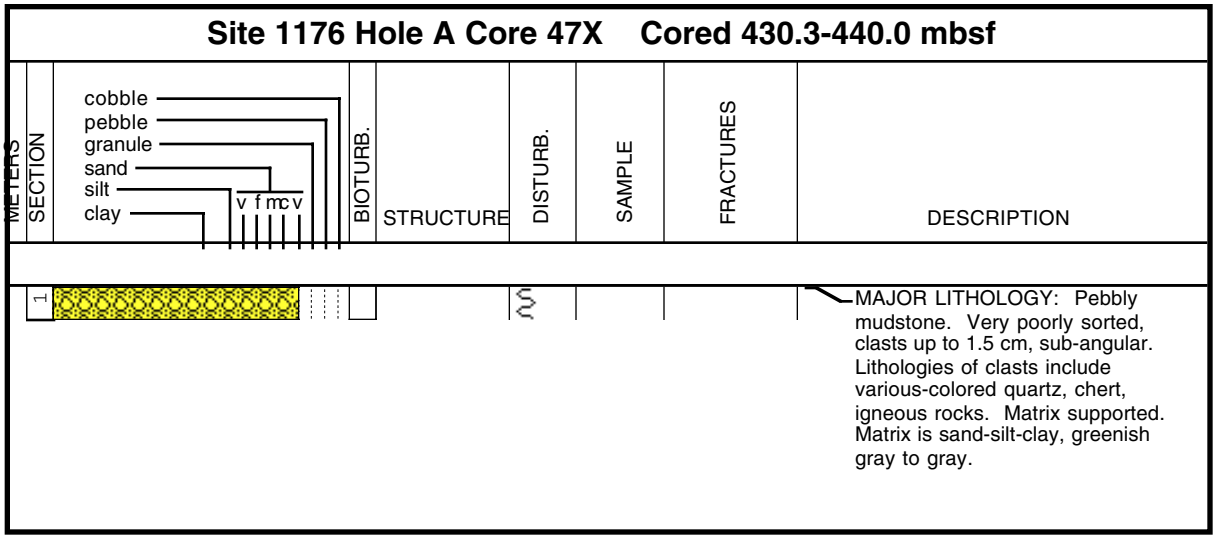
Core Photo


Site 1176 Hole A Core 45X Cored 411.2-420.8 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
F
MAJOR LITHOLOGY: Sand, greenish gray. Planar laminae.
SECONDARY LITHOLOGY: Gravelly mudstone. Very poorly sorted, clasts up to 1 cm, subrounded to subangular. Clast lithologies include vein quartz, black and green chert, siliceous mudstone, mud chips, and veined clasts. Matrix-supported. Matrix is sand-silt-clay. Crude fining upward.
Base of secondary lithology is as follows:
Section 1: 45 cm

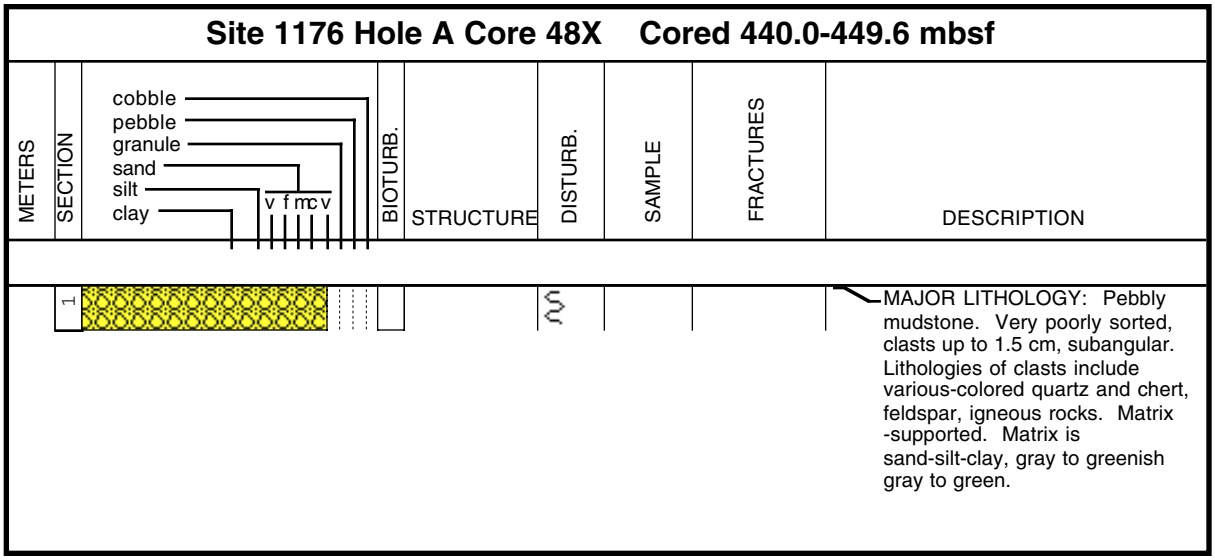
Core Photo


Site 1176 Hole A Core 46X Cored 420.8-430.3 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
MAJOR LITHOLOGY: Gravel, very poorly sorted. Clasts are up to 1 cm, sub-rounded to sub-angular. Clast lithologies include vein quartz, black and green chert, shell fragments, and green sandstone. Matrix-supported. Matrix is sand-silt-clay, green.

Core Photo


Site 1176 Hole A Core 47X Cored 430.3-440.0 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
MAJOR LITHOLOGY: Pebbly mudstone. Very poorly sorted, clasts up to 1.5 cm, sub-angular. Lithologies of clasts include various-colored quartz, chert, igneous rocks. Matrix supported. Matrix is sand-silt-clay, greenish gray to gray.

Core Photo


Site 1176 Hole A Core 48X Cored 440.0-449.6 mbsf
METERS
SECTION
cobble
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
DISTURB.
SAMPLE
FRACTURES
DESCRIPTION
1
MAJOR LITHOLOGY: Pebbly mudstone. Very poorly sorted, clasts up to 1.5 cm, subangular. Lithologies of clasts include various-colored quartz and chert, feldspar, igneous rocks. Matrix -supported. Matrix is sand-silt-clay, gray to greenish gray to green.

Sample							Texture			Mineral										Biogenic						Rock	
Hole	Core	CT	Section	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals	Carbonate	Clay	Feldspar	Glauconite	Opaques	Pyroxene	Quartz	Volcanic Glass	Zeolite	Diatoms	Foraminifers	Nannofossils	Radiolarians	Silicoflagellates	Sponge Spicules	Lithic Fragments	Comments
1176																											
A	1	H	1	107	1.07	M	D	C	C			P	P				C	D				A					Volcanic ash
A	1	H	2	48	1.98	D	C	A	D		P	D					P	P			P	C	P	P	C	P	Silty clay
A	2	H	3	134	11.74	M	A	D	A		R	A	C		P		C		R			P			R	P	Silty sand
A	3	H	1	92	17.82	M	D	C	C			C	P		P		P	D	P			P					Volcanic ash
A	3	H	4	84	22.24	M	D	C	P				P				C	D			P	P				C	Silty sand / ash
A	4	H	1	58	26.98	M	C	D	C	P	P	C	C				C	C		R	P	C			P	P	Silty sand - dark brown
A	5	H	2	96	38.36	M	D	C	C			C	C		C		D	C		R	R	P					Silty sand
A	5	H	2	124	38.64	D		C	D			A					R	P		P	P	C	C		C		Silty clay
A	5	H	CC	10	42.89	M		D	A			A	P		R		P	A		P	R	R	R		D		Volcanic ash
A	6	H	3	54	48.94	M	D	C	C	R			P		R		P	D				R	R			P	Volcanic ash - light gray
A	6	H	3	65	49.05	M	A	D	A				P				P	D		R		P				P	Volcanic ash
A	6	H	4	105	50.95	D		A	D			A	P				P	P		C	R	C	R		P	R	Silty clay
A	7	H	2	80	57.2	D		A	D			A	P				P	P		C		A	R		P		Silty clay
A	7	H	2	134	57.74	M	A	A	A	P		A					P	C		P	C	C	R		P		Sand-silt-clay
A	7	H	3	8	57.98	M	D	A	A				P				P	D		P		C					Volcanic ash - brown
A	8	H	1	80	65.2	D		A	D			D	P				P	P		P	P	C	R	R	P		Silty clay
A	9	H	5	70	80.6	D		A	D			D	P				P	P		P	P	A	R	R	P		Silty clay
A	9	H	5	38	80.28	M	A	D	C				P				P	D		R		P					Volcanic ash - white
A	10	H	3	107	87.47	D	P	A	D			A	P				P			P	P	A	R		P	P	Silty clay
A	10	H	3	80	87.2	M	A	A	D	P		A	C				C			P	C	A			P		Sand-silt-clay
A	10	H	4	70	88.6	M	D	A	A	P			P				P	D		R		P					Volcanic ash - pale gray
A	11	H	3	80	96.7	D		A	D			A					P	P		P	P	A	R	R	P		Silty clay
A	12	H	1	126	103.66	M	A	D	C			C						D		P	R	C			P		Volcanic ash - light gray
A	12	H	4	4	106.01	D		A	D			D					R	P		C	R	A	R	P	P		Silty clay
A	13	H	2	79	114.19	D	P	C	D		P	A					P	P		P		A			P	P	Silty clay
A	13	H	3	14	114.92	M	D	C	C		P	A					P	P		P		A			P	P	Volcanic ash
A	14	H	1	81	122.21	D	C	C	D		P	C	P		R		P	C		R	*	D	R	*	P		Silty clay
A	14	H	3	100	125.4	D	C	C	D			C	P				P	P		P	R	D			C		Silty clay
A	15	H	4	120	136.6	D		C	D			A	C	R			C	C		*	*	D		R	P		Silty clay
A	16	H	3	100	144.4	D	P	C	D			A	P	R	P		C	C	R	R	R	D	*			P	Silty clay
A	17	H	3	53	153.43	M	D	C	C			P	C		P		C	A				P				C	Volcanic ash (pink)
A	17	H	3	88	153.78	M	D	C	A		P	C	P				P	A			R	C				P	Volcanic ash (greenish gray)
A	17	H	4	12	154.52	M	A	A	A			C	P		C		C	C				C				C	Silty sand
A	18	H	1	75	160.15	M	A	A	A	A		C			C		C	D				P					Volcanic ash
A	18	H	2	75	161.52	M	D	A					P		C		P	D								C	Volcanic ash
A	19	H	2	47	164.37	M	D	A	C				P		R		P	D	P	R	R	P				R	Volcanic ash
A	19	H	5	80	169.2	D		A	D			D	P				P	P		P	P	A	R		P		Silty clay
A	20	X	2	20	172.3	M	A	D	C				P		R		P	D									Volcanic ash - white-light gray
A	21	X	2	50	182.2	M	D	A	C	P			P				P	D				R			R		Volcanic ash - salt and pepper
A	21	X	3	80	184	D		A	D			D	P				P	P		P	P	C			P		Silty clay
A	22	X	2	79	192.19	D		A	D			A	P				C	C		C		C	C		C		Silty claystone
A	22	X	4	22	194.62	M	C	A	D	P		A	P					C		C	R	A			C		Sand-silt-clay
A	23	X	3	70	203.2	D		A	D	P		D	P				P	P		P	R	A	R		P		Silty claystone
A	24	X	4	75	214.35	D	C	A	D			D	P				P	C		P	R	C	R				Silty clay
A	25	X	2	75	220.95	D		A	D			D					P	P	R			C			P	R	Silty clay
A	25	X	4	101	224.21	M	A	A	A			A	P				P	C			C	C				C	Sand-silt-clay
A	25	X	CC	18	224.6	M	D	C		P			C				A	A				P				P	Sand
A	26	X	2	80	230.6	M	A	A	A			A	P				C	A		R	P	C				R	Sand-silt-clay
A	27	X	1	58	238.48	M	C	D	C			A	P				P	D									Volcanic Ash

Sample							Texture			Mineral										Biogenic						Rock	
Hole	Core	CT	Section	Top (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Accessory Minerals	Carbonate	Clay	Feldspar	Glauconite	Opaques	Pyroxene	Quartz	Volcanic Glass	Zeolite	Diatoms	Foraminifers	Nannofossils	Radiolarians	Silicoflagellates	Sponge Spicules	Lithic Fragments	Comments
1176																											
A	27	X	3	110	242	D	A	A	C			C	C		P		D	P				R					Sand-silt-clay
A	28	X	CC	21	248.91	M	D	A					C		P	P	A	P								A	Sandy silt
A	29	X	CC	29	257.39	D	D	A	A			C			P	P	A	P								A	Sand-silt-clay
A	30	X	CC	30	267	D	D	A				P			P	P	A	P								A	Silty sand
A	31	X	CC	16	276.56	M	A	D	C			C		P	C		A	P								A	Silty sand
A	33	X	CC	25	296.74	D	D	A	C			C			C		D									A	Silty sand
A	35	X	CC	12	315.45	M	A	A	A			C			P		A	P								A	Sand-silt-clay
A	36	X	2	10	325.03	M	A	A	A	P		A	C	R	P		P									C	Silty sand
A	37	X	2	25	334.96	M	A	A	A	*	*	C	A		P		C									P	Silty sand
A	39	X	CC	41	354.49	M	C	A	D			A	C				C	A				*					Silty clay - rich in volcanic glass
A	40	X	2	36	364.11	M	A	A	D	R		D	P		R		C					P			P		Silty sand
A	43	X	2	80	394.3	M	C	A	D			D	C				A					P					Silty claystone
A	43	X	2	59	394.09	M		C	D		A	A					R					R					Carbonate-cemented claystone
A	43	X	CC	46	396.58	D	D	A	C	P		C	A				D					R				A	Sand
A	44	X	CC	15	402.54	D	D	A	A			A					A				R	P				A	Clayey sand