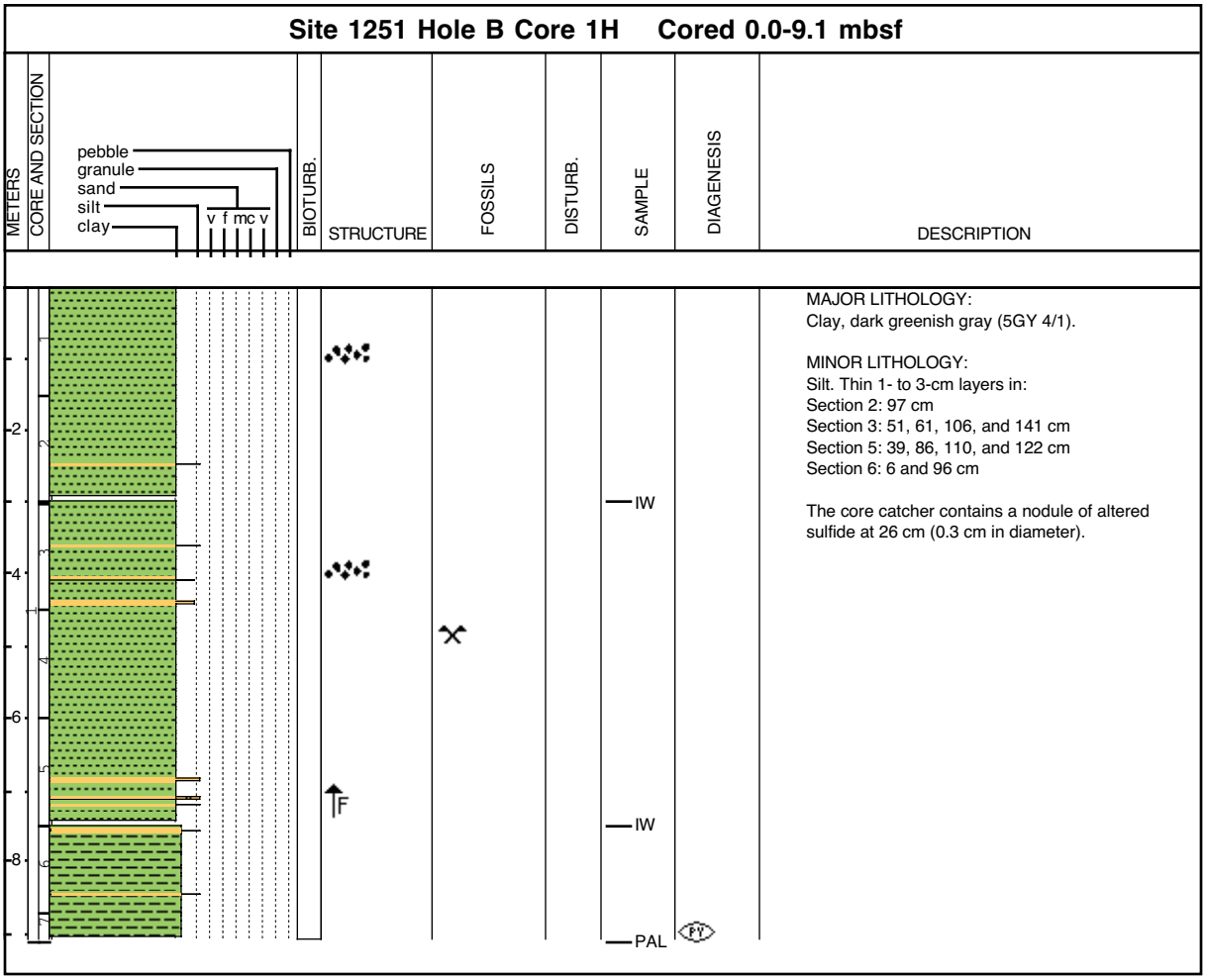
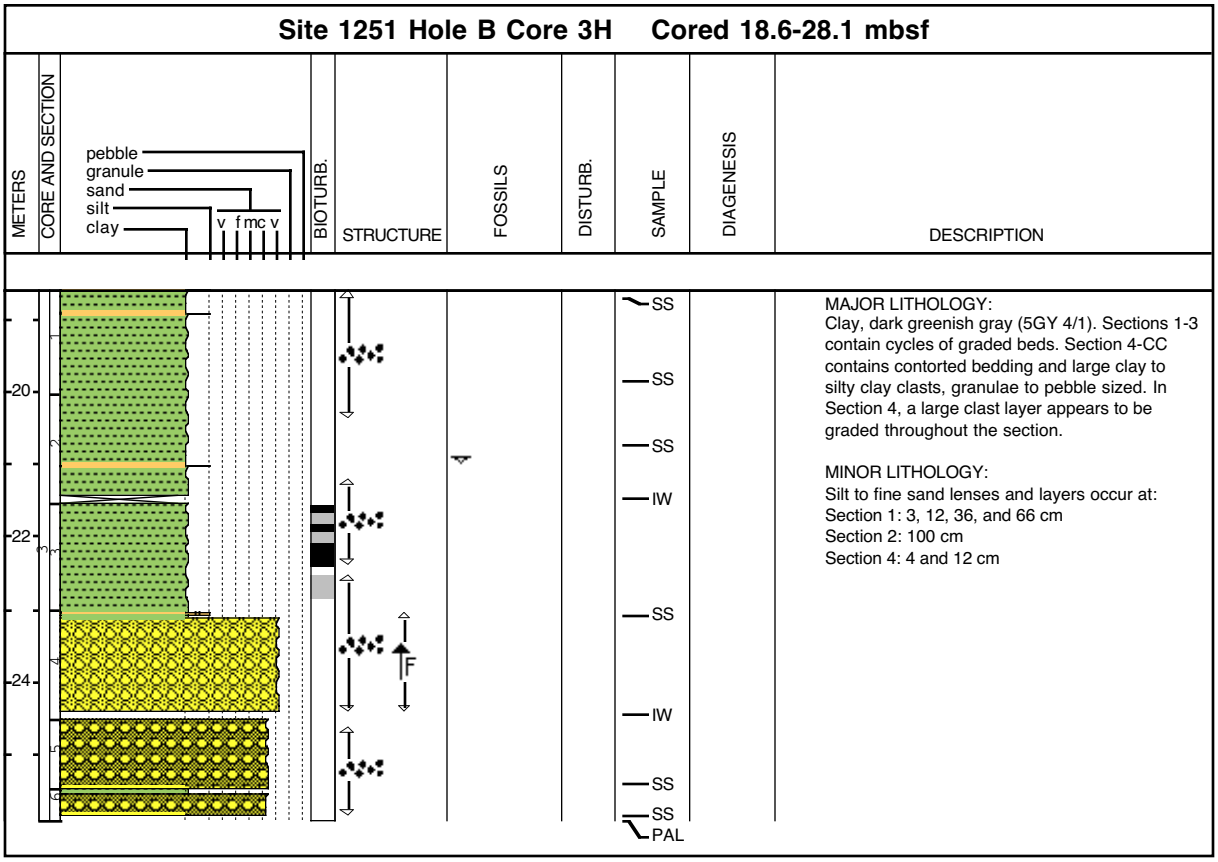
Core Photo



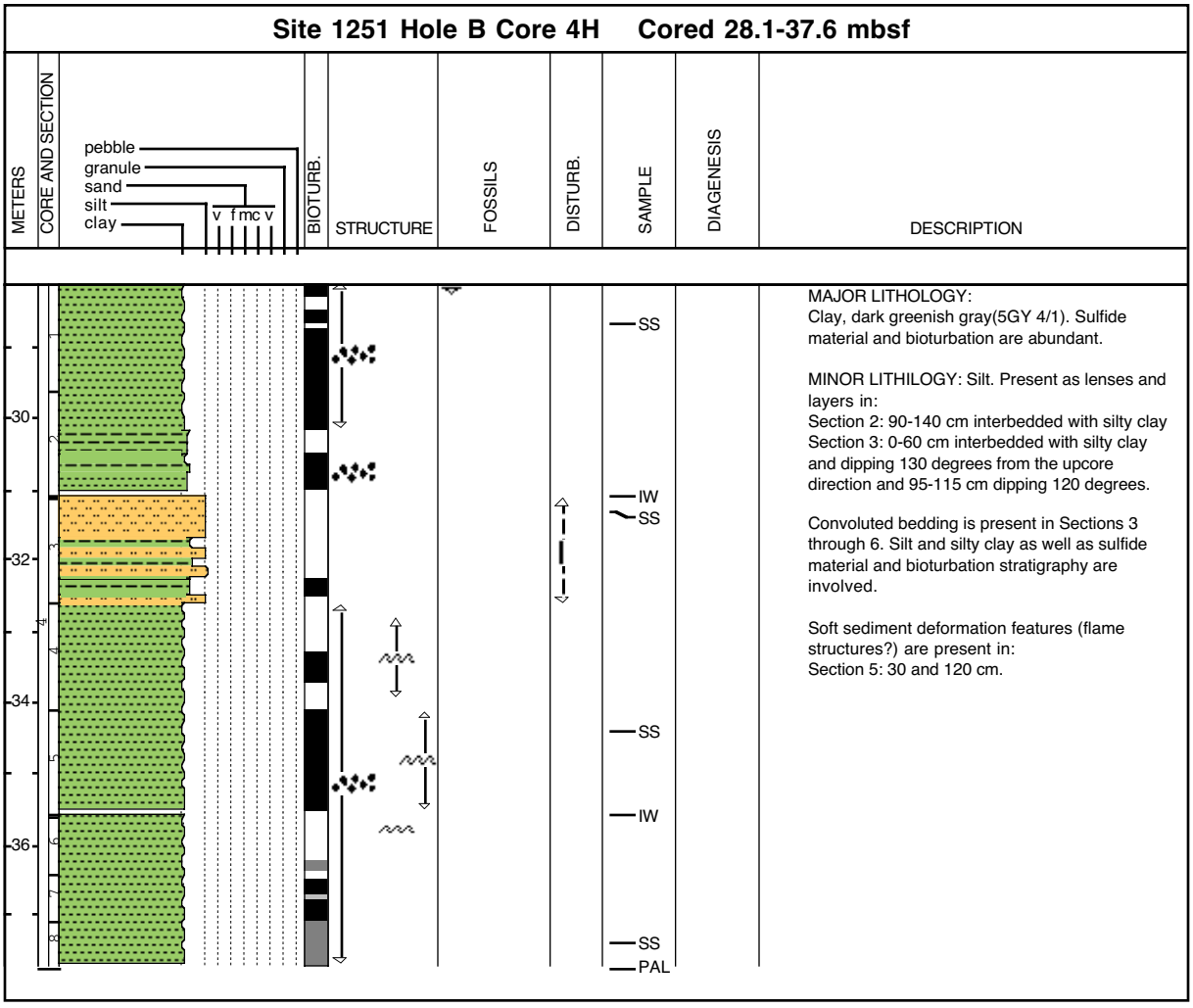
Hole A Drilled, but not cored.

1251B-2H No Recovery

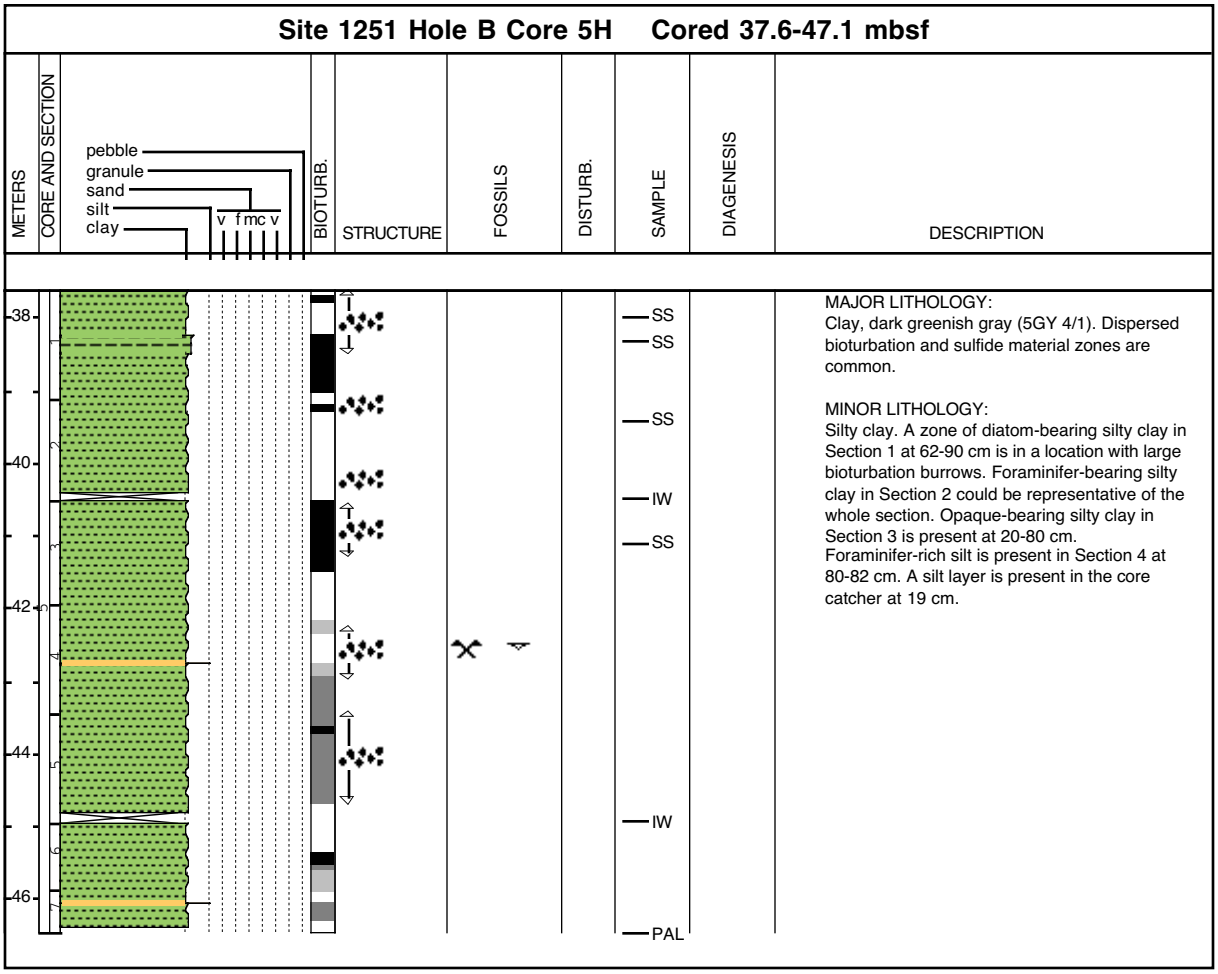
Core Photo


Site 1251 Hole B Core 3H Cored 18.6-28.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
20
22
24
1
2
3
4
5
6
F
SS
SS
SS
IW
SS
IW
SS
SS
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1). Sections 1-3 contain cycles of graded beds. Section 4-CC contains contorted bedding and large clay to silty clay clasts, granulae to pebble sized. In Section 4, a large clast layer appears to be graded throughout the section.
MINOR LITHOLOGY:
Silt to fine sand lenses and layers occur at:
Section 1: 3, 12, 36, and 66 cm
Section 2: 100 cm
Section 4: 4 and 12 cm

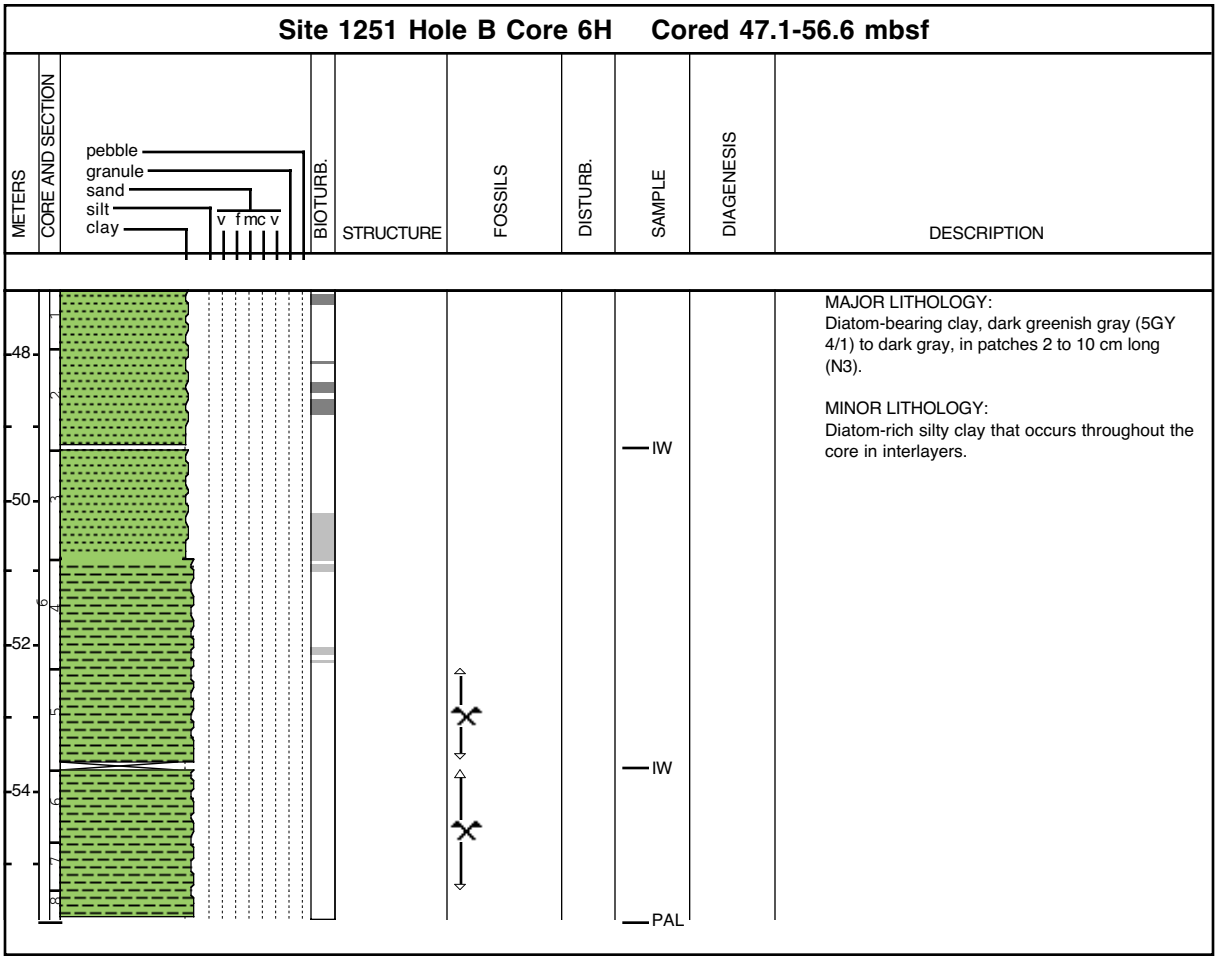
Core Photo


Site 1251 Hole B Core 4H Cored 28.1-37.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
30
32
34
36
SS
IW
SS
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray(5GY 4/1). Sulfide material and bioturbation are abundant.
MINOR LITHILOGY: Silt. Present as lenses and layers in:
Section 2: 90-140 cm interbedded with silty clay
Section 3: 0-60 cm interbedded with silty clay and dipping 130 degrees from the upcore direction and 95-115 cm dipping 120 degrees.
Convoluted bedding is present in Sections 3 through 6. Silt and silty clay as well as sulfide material and bioturbation stratigraphy are involved.
Soft sediment deformation features (flame structures?) are present in:
Section 5: 30 and 120 cm.

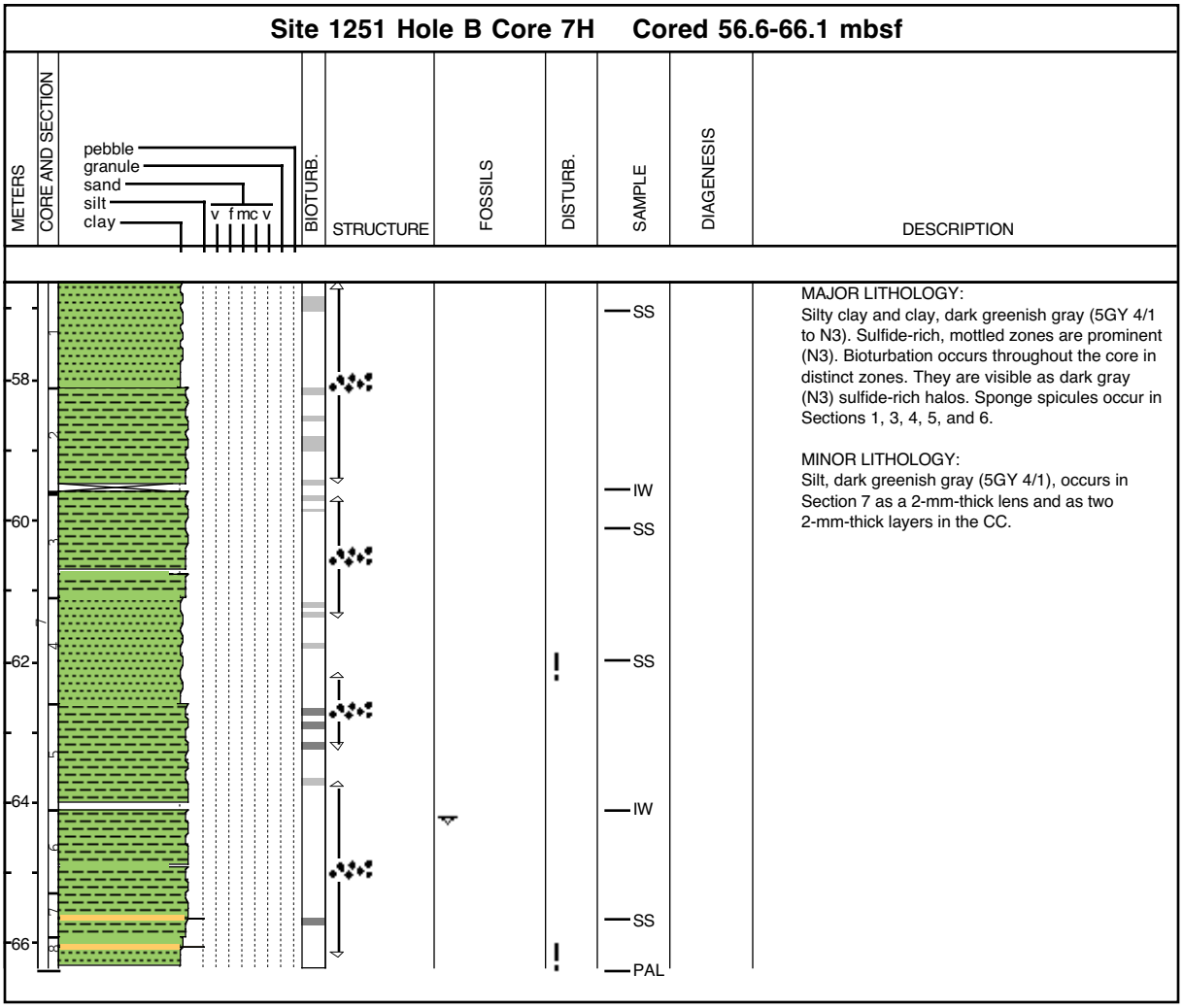
Core Photo


Site 1251 Hole B Core 5H Cored 37.6-47.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
38
40
42
44
46
SS
SS
SS
IW
SS
IW
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1). Dispersed bioturbation and sulfide material zones are common.
MINOR LITHOLOGY:
Silty clay. A zone of diatom-bearing silty clay in Section 1 at 62-90 cm is in a location with large bioturbation burrows. Foraminifer-bearing silty clay in Section 2 could be representative of the whole section. Opaque-bearing silty clay in Section 3 is present at 20-80 cm. Foraminifer-rich silt is present in Section 4 at 80-82 cm. A silt layer is present in the core catcher at 19 cm.

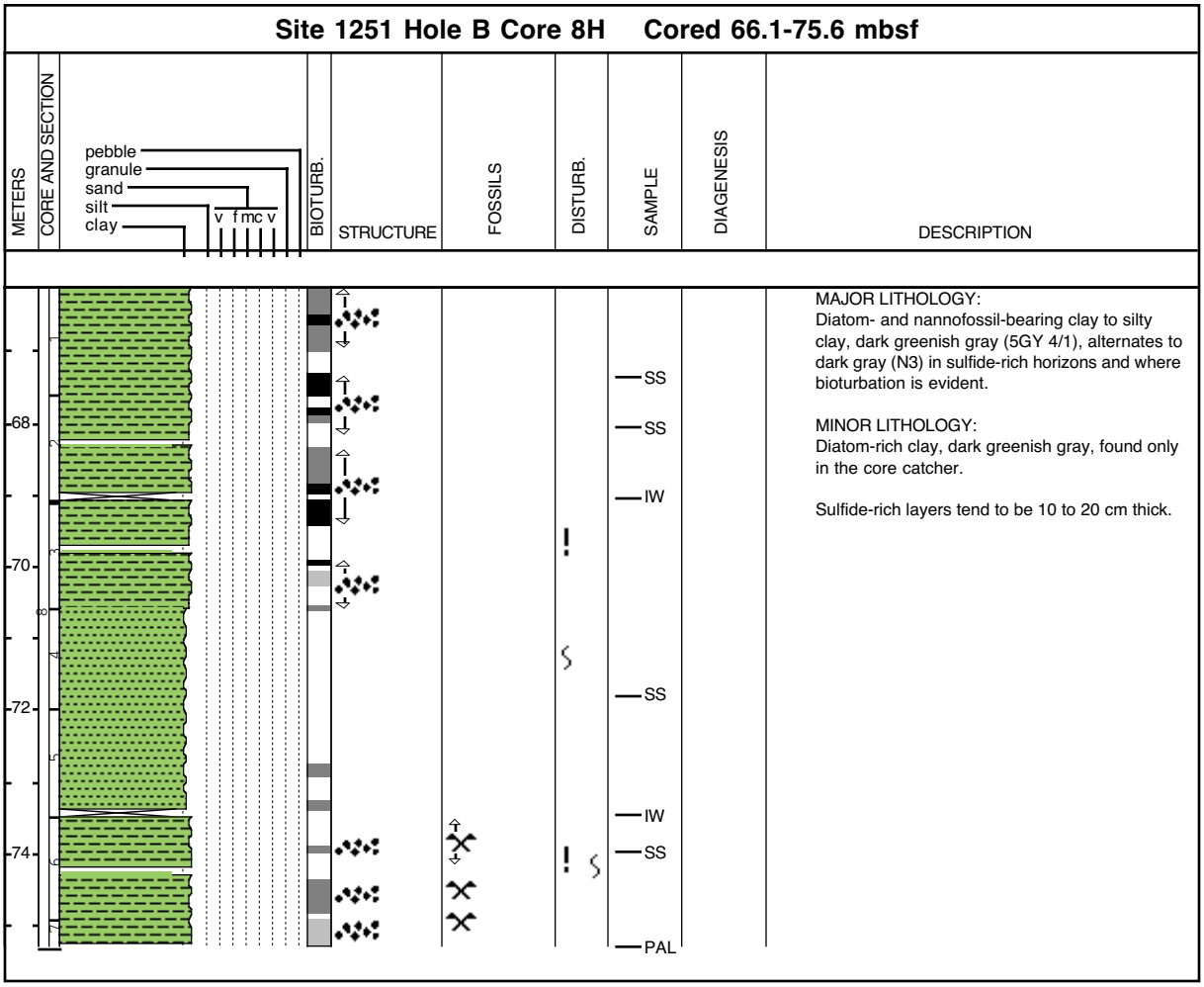
Core Photo


Site 1251 Hole B Core 6H Cored 47.1-56.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
48
50
52
54
IW
IW
PAL
MAJOR LITHOLOGY:
Diatom-bearing clay, dark greenish gray (5GY 4/1) to dark gray, in patches 2 to 10 cm long (N3).
MINOR LITHOLOGY:
Diatom-rich silty clay that occurs throughout the core in interlayers.

Core Photo

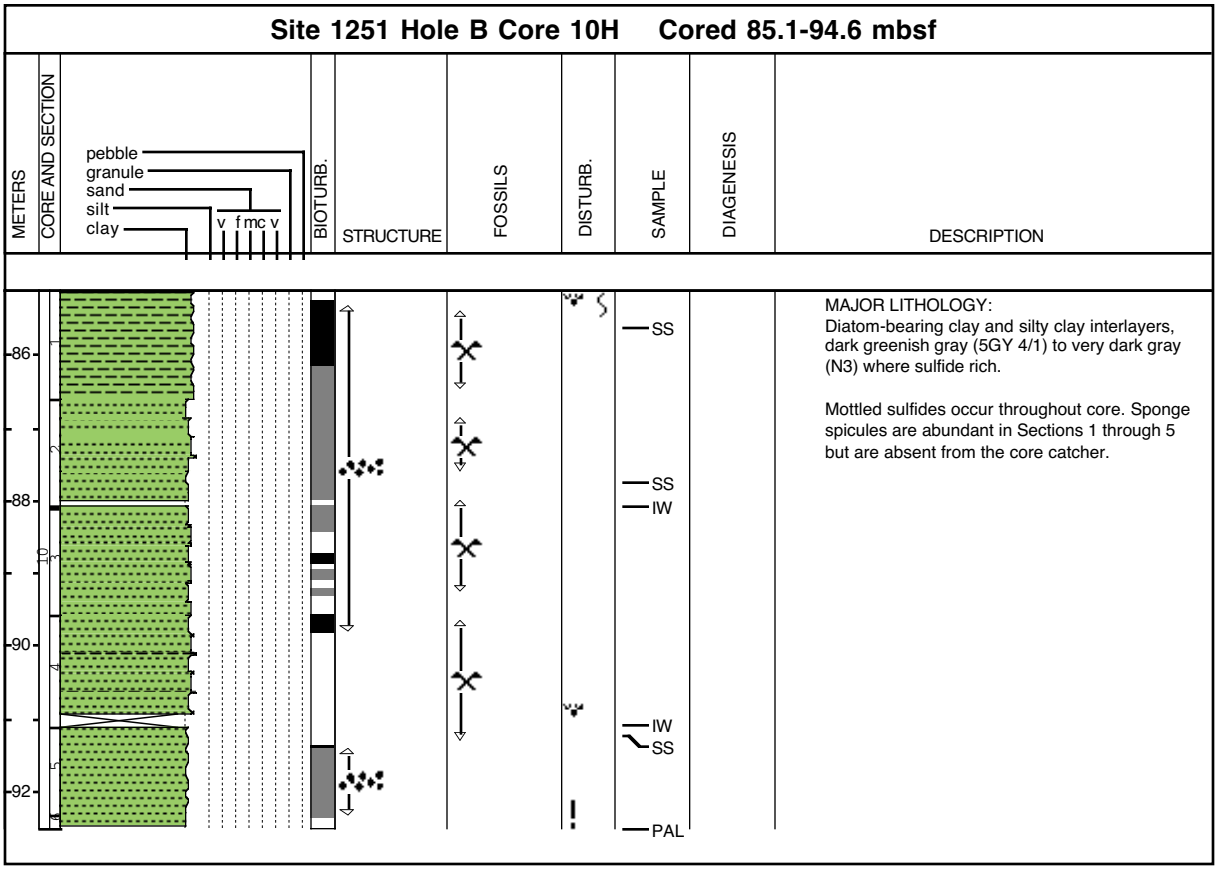

Site 1251 Hole B Core 7H Cored 56.6-66.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
58
60
62
64
66
SS
IW
SS
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Silty clay and clay, dark greenish gray (5GY 4/1 to N3). Sulfide-rich, mottled zones are prominent (N3). Bioturbation occurs throughout the core in distinct zones. They are visible as dark gray (N3) sulfide-rich halos. Sponge spicules occur in Sections 1, 3, 4, 5, and 6.
MINOR LITHOLOGY:
Silt, dark greenish gray (5GY 4/1), occurs in Section 7 as a 2-mm-thick lens and as two 2-mm-thick layers in the CC.

Core Photo

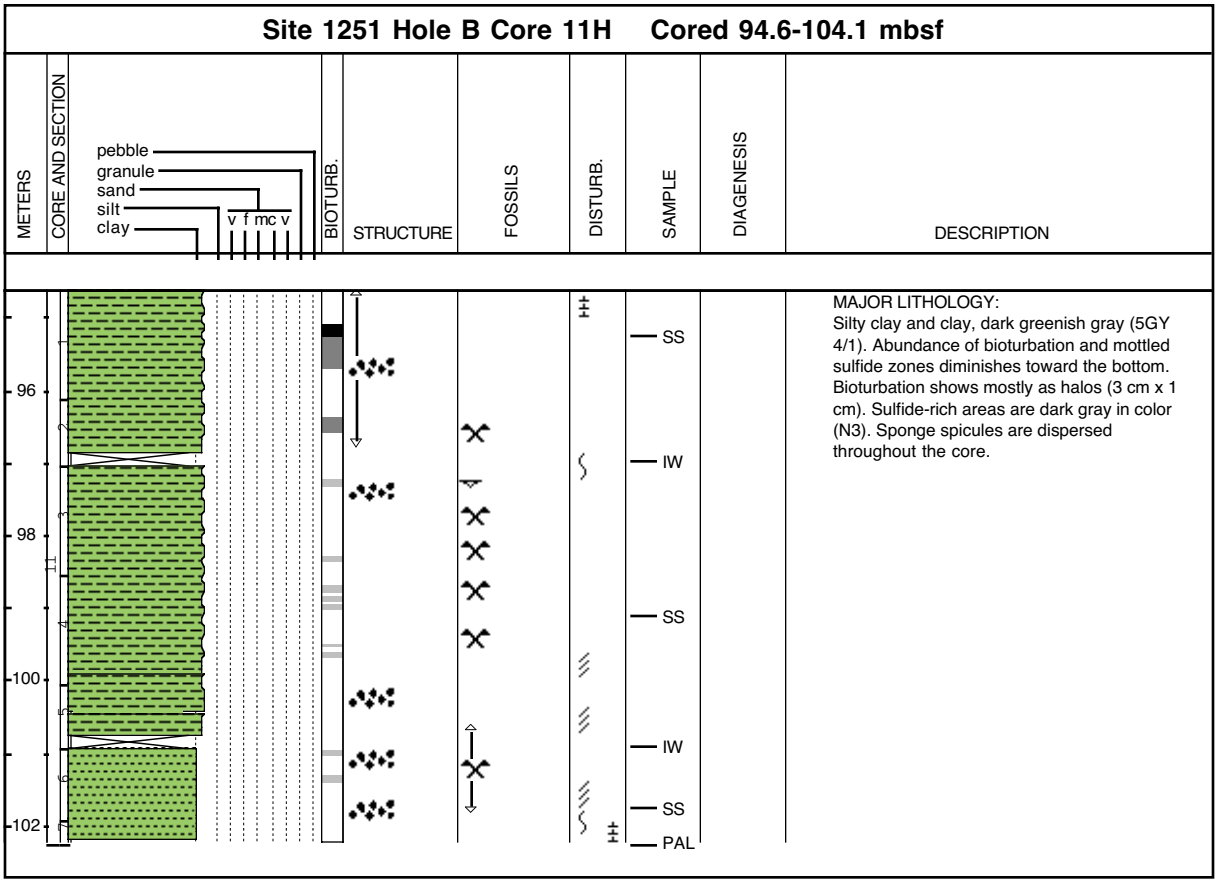


1251B-9H No Recovery

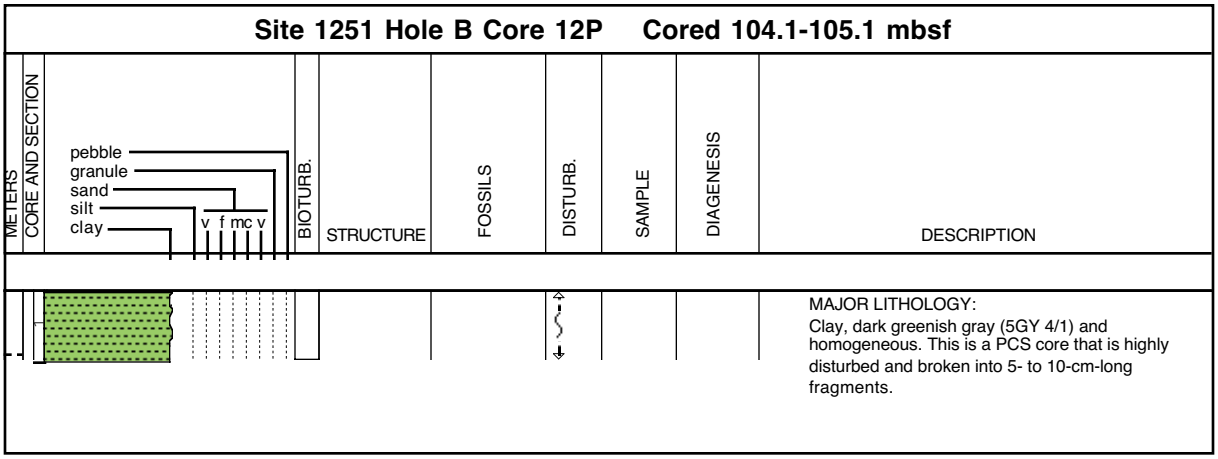
Core Photo


Site 1251 Hole B Core 10H Cored 85.1-94.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
86
88
90
92
10
1
2
3
4
5
SS
SS
IW
IW
SS
PAL
MAJOR LITHOLOGY:
Diatom-bearing clay and silty clay interlayers, dark greenish gray (5GY 4/1) to very dark gray (N3) where sulfide rich.
Mottled sulfides occur throughout core. Sponge spicules are abundant in Sections 1 through 5 but are absent from the core catcher.

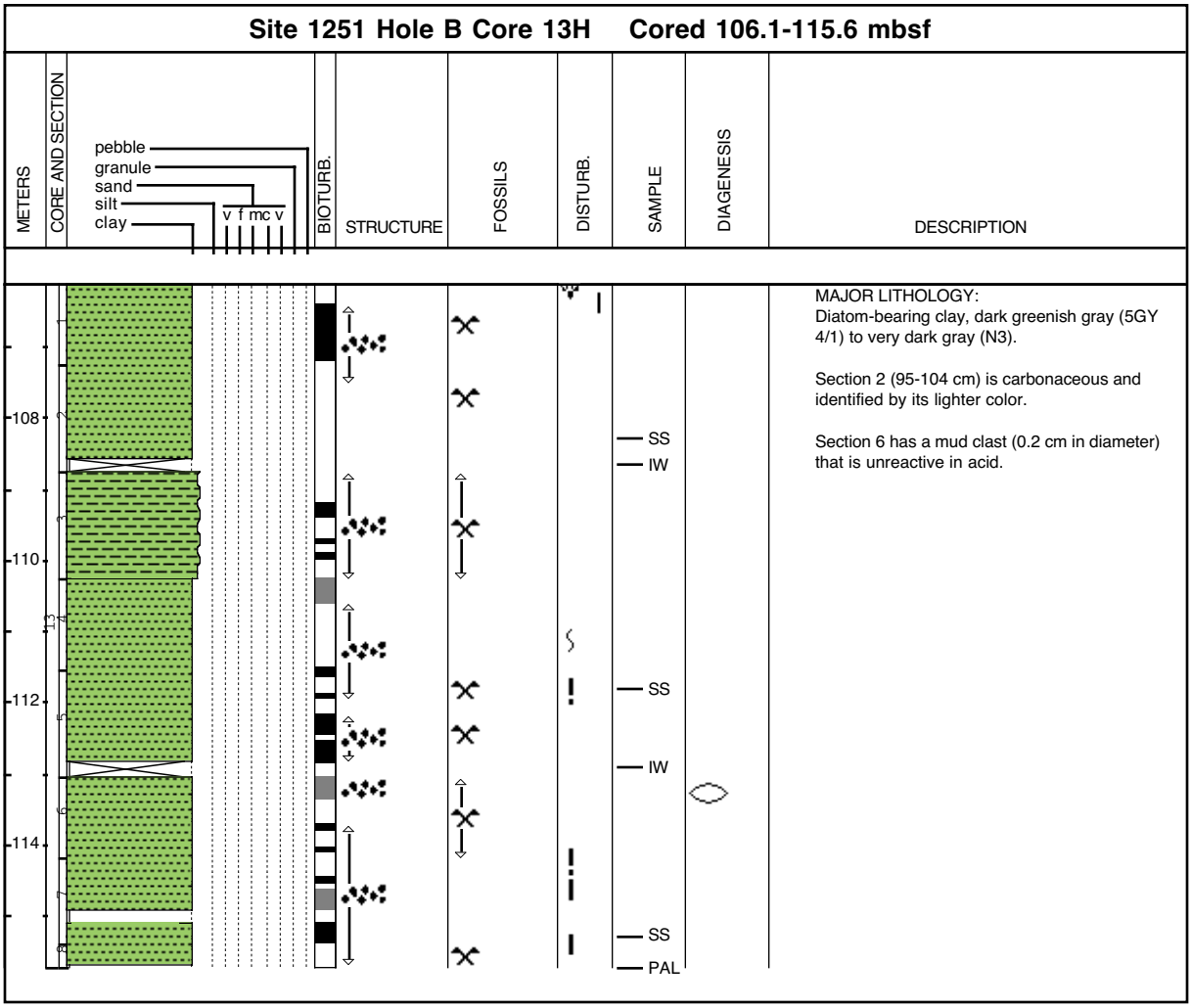
Core Photo


Site 1251 Hole B Core 11H Cored 94.6-104.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
96
98
100
102
11
1
2
3
4
5
6
7
SS
IW
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Silty clay and clay, dark greenish gray (5GY 4/1). Abundance of bioturbation and mottled sulfide zones diminishes toward the bottom. Bioturbation shows mostly as halos (3 cm x 1 cm). Sulfide-rich areas are dark gray in color (N3). Sponge spicules are dispersed throughout the core.

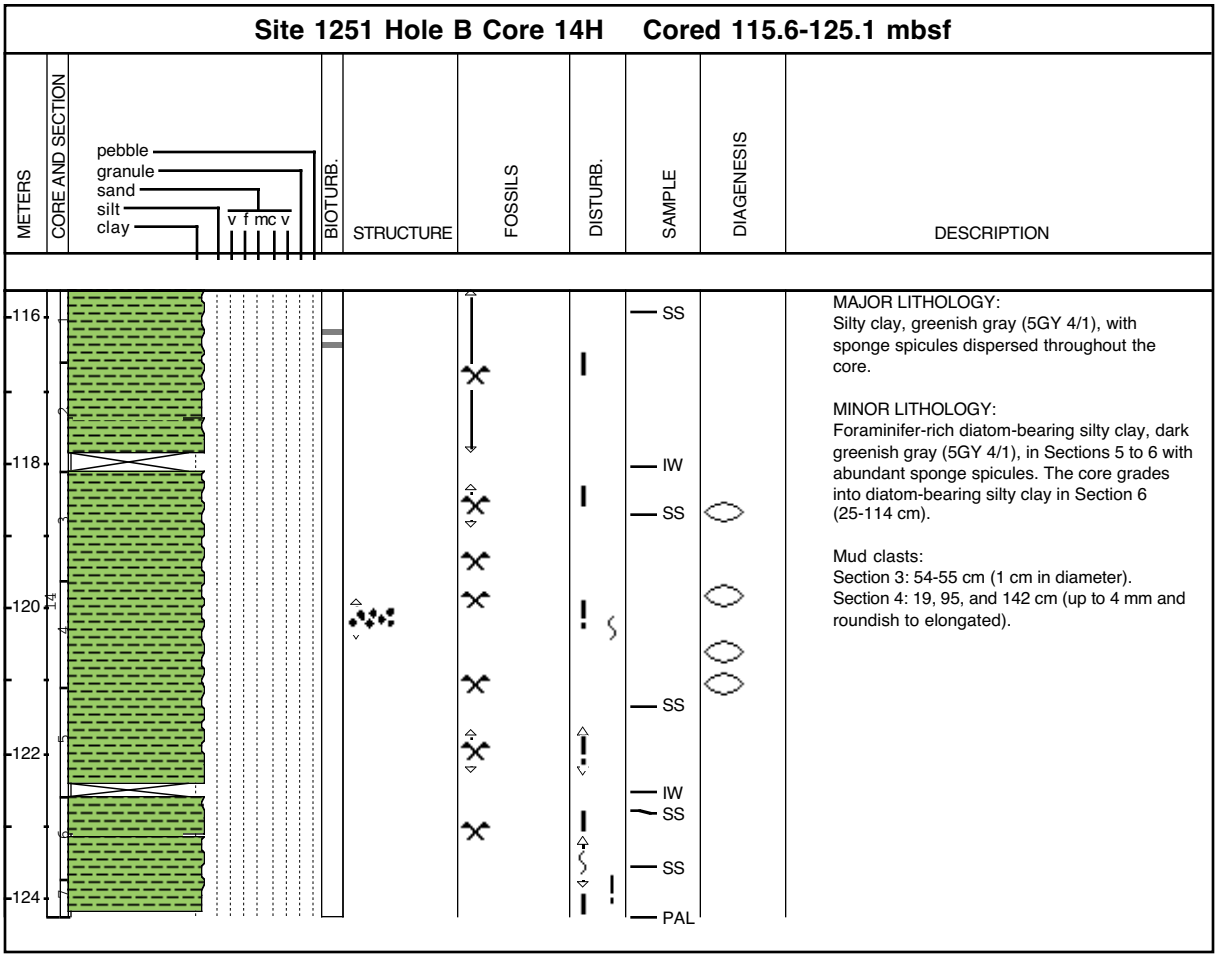
Core Photo


Site 1251 Hole B Core 12P Cored 104.1-105.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1) and homogeneous. This is a PCS core that is highly disturbed and broken into 5- to 10-cm-long fragments.

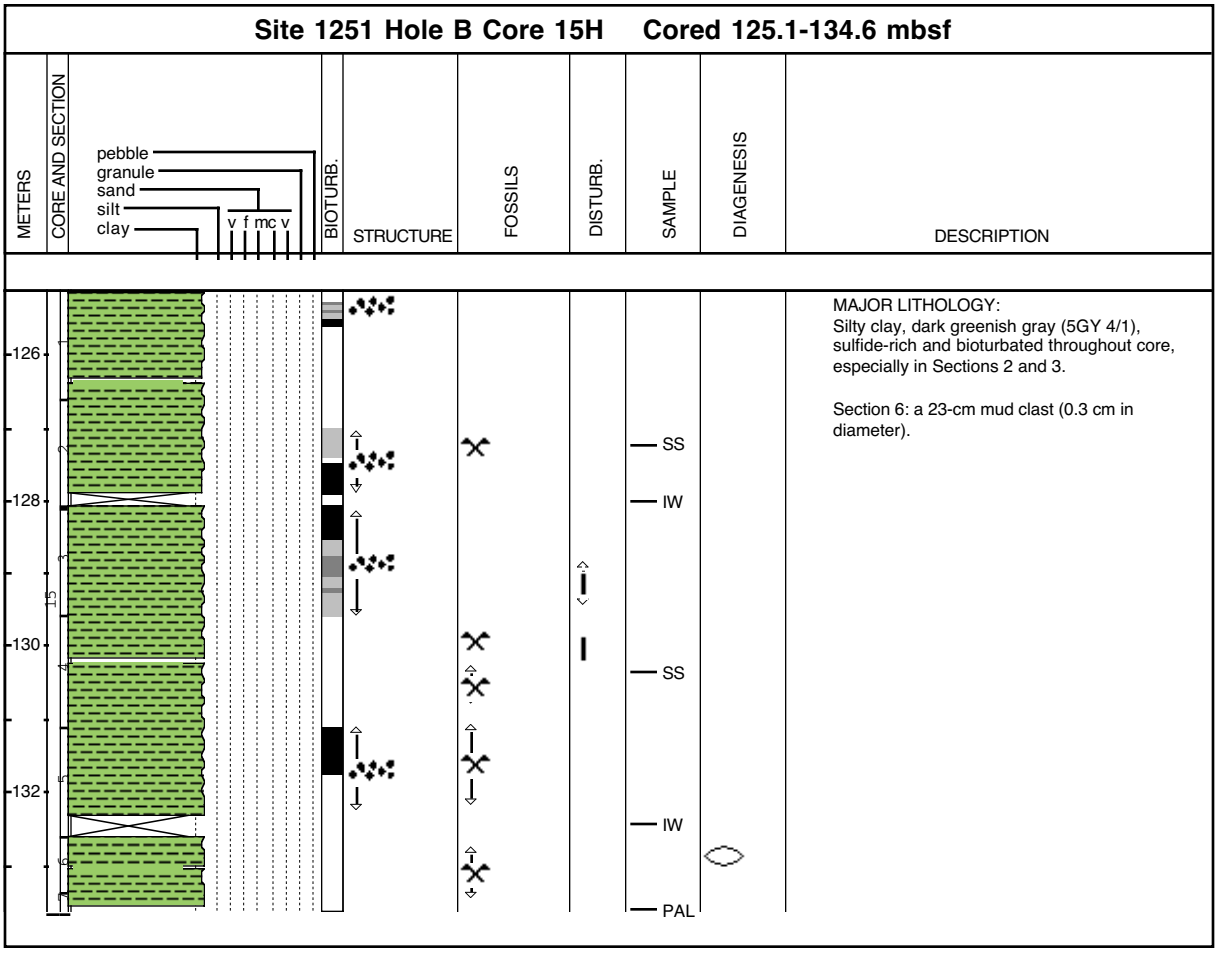
Core Photo


Site 1251 Hole B Core 13H Cored 106.1-115.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
108
110
112
114
13
SS
IW
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Diatom-bearing clay, dark greenish gray (5GY 4/1) to very dark gray (N3).
Section 2 (95-104 cm) is carbonaceous and identified by its lighter color.
Section 6 has a mud clast (0.2 cm in diameter) that is unreactive in acid.

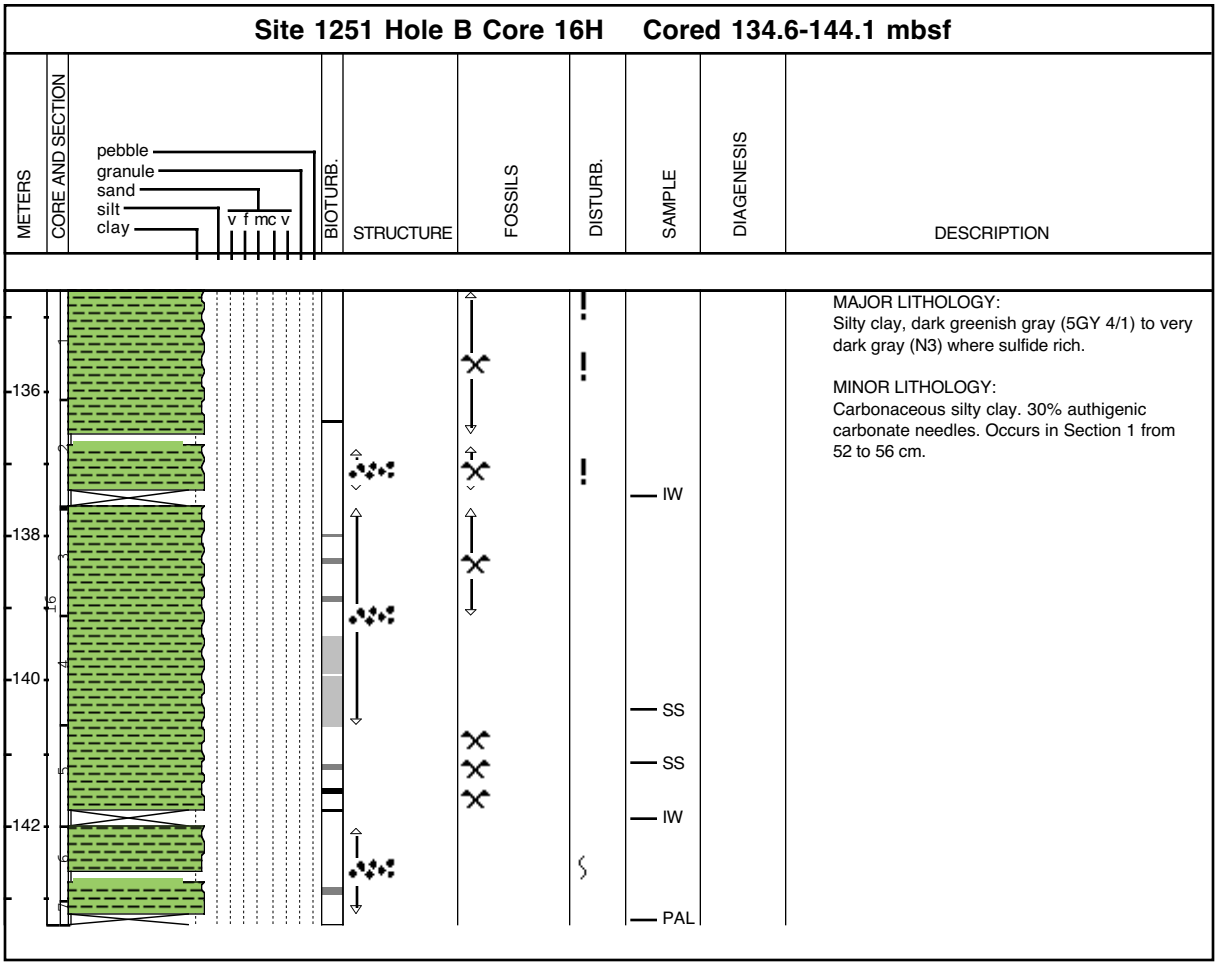
Core Photo


Site 1251 Hole B Core 14H Cored 115.6-125.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
116
118
120
122
124
SS
IW
SS
SS
IW
SS
SS
PAL
MAJOR LITHOLOGY:
Silty clay, greenish gray (5GY 4/1), with sponge spicules dispersed throughout the core.
MINOR LITHOLOGY:
Foraminifer-rich diatom-bearing silty clay, dark greenish gray (5GY 4/1), in Sections 5 to 6 with abundant sponge spicules. The core grades into diatom-bearing silty clay in Section 6 (25-114 cm).
Mud clasts:
Section 3: 54-55 cm (1 cm in diameter).
Section 4: 19, 95, and 142 cm (up to 4 mm and roundish to elongated).

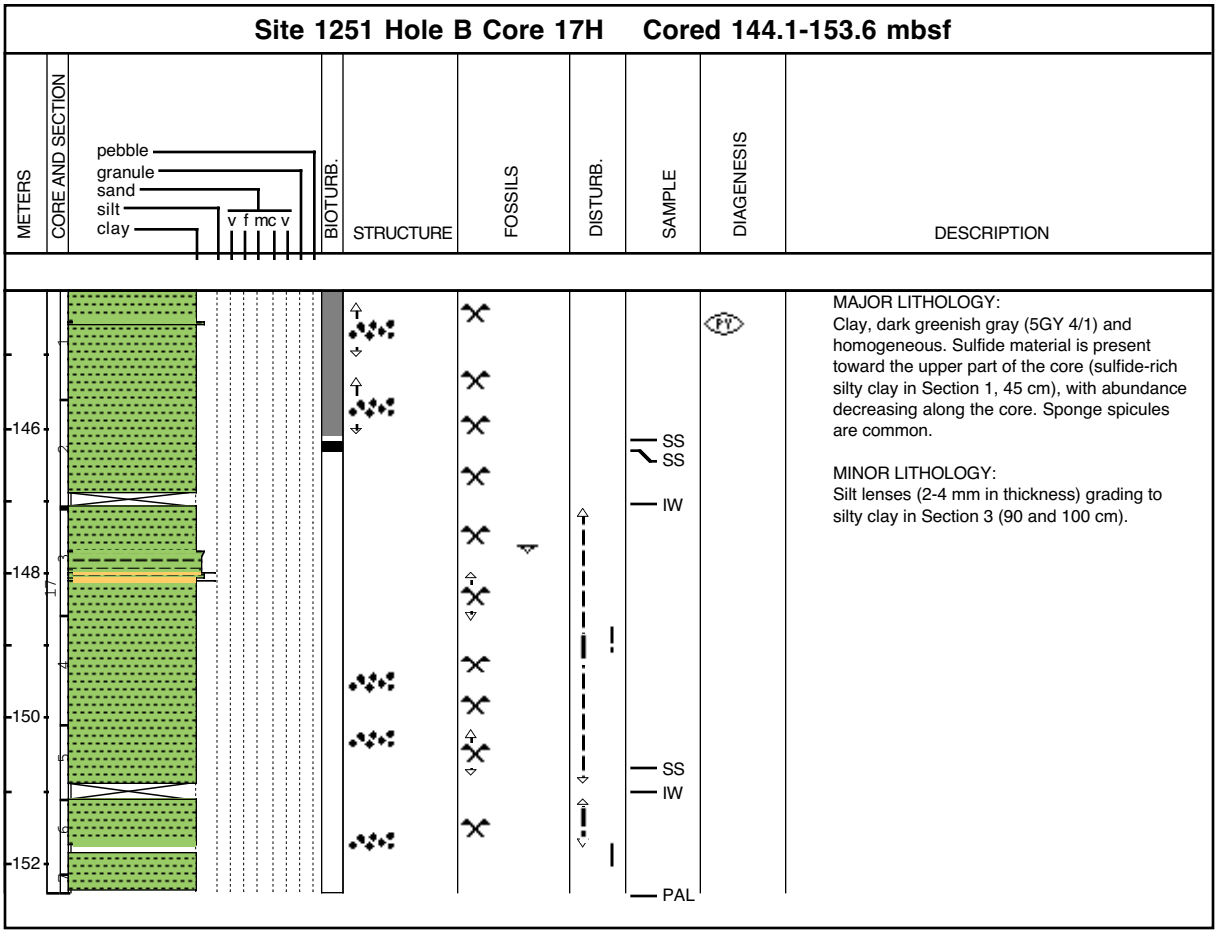
Core Photo


Site 1251 Hole B Core 15H Cored 125.1-134.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
126
128
130
132
15
SS
IW
SS
IW
PAL
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1), sulfide-rich and bioturbated throughout core, especially in Sections 2 and 3.
Section 6: a 23-cm mud clast (0.3 cm in diameter).

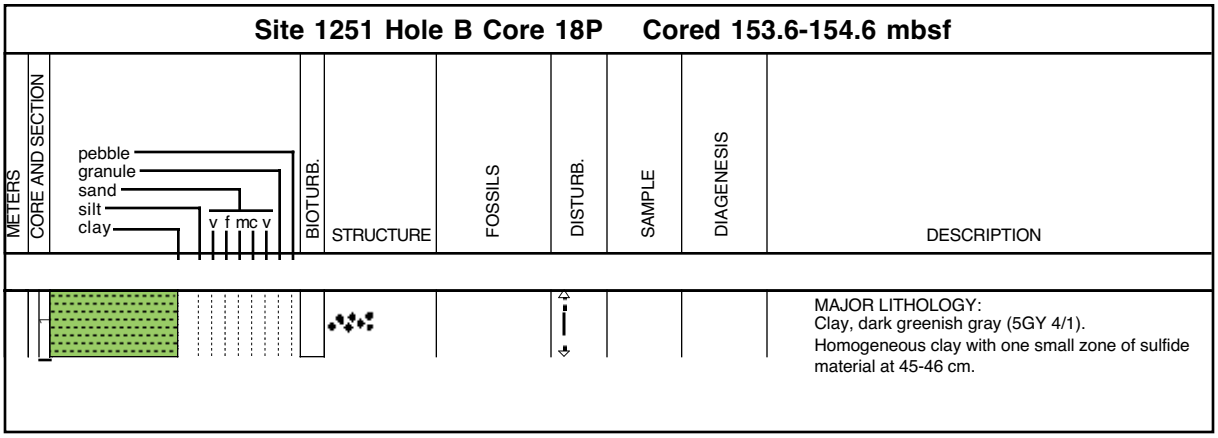
Core Photo


Site 1251 Hole B Core 16H Cored 134.6-144.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
136
138
140
142
IW
SS
SS
IW
PAL
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3) where sulfide rich.
MINOR LITHOLOGY:
Carbonaceous silty clay. 30% authigenic carbonate needles. Occurs in Section 1 from 52 to 56 cm.

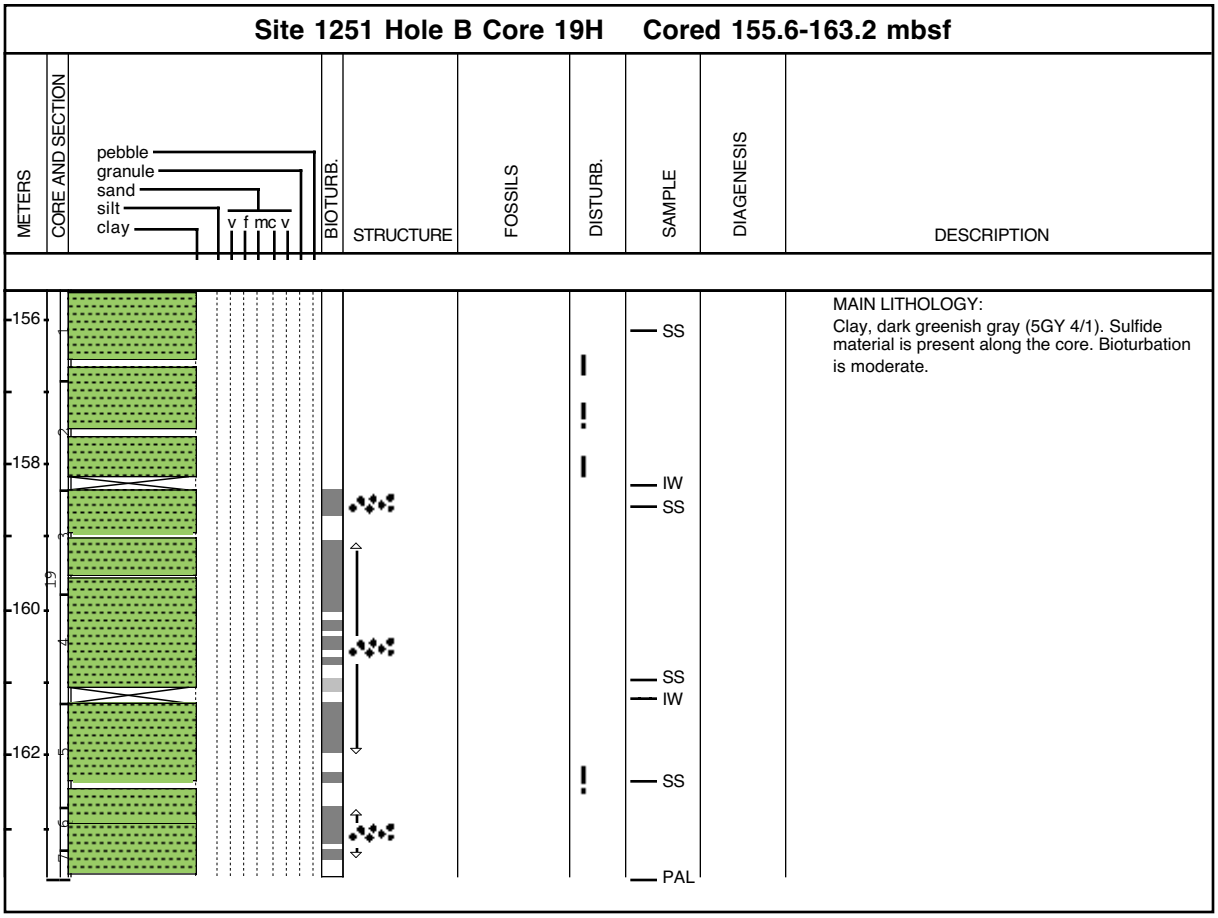
Core Photo


Site 1251 Hole B Core 17H Cored 144.1-153.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
146
148
150
152
17
1
2
3
4
5
6
SS
SS
IW
SS
IW
PAL
PY
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1) and homogeneous. Sulfide material is present toward the upper part of the core (sulfide-rich silty clay in Section 1, 45 cm), with abundance decreasing along the core. Sponge spicules are common.
MINOR LITHOLOGY:
Silt lenses (2-4 mm in thickness) grading to silty clay in Section 3 (90 and 100 cm).

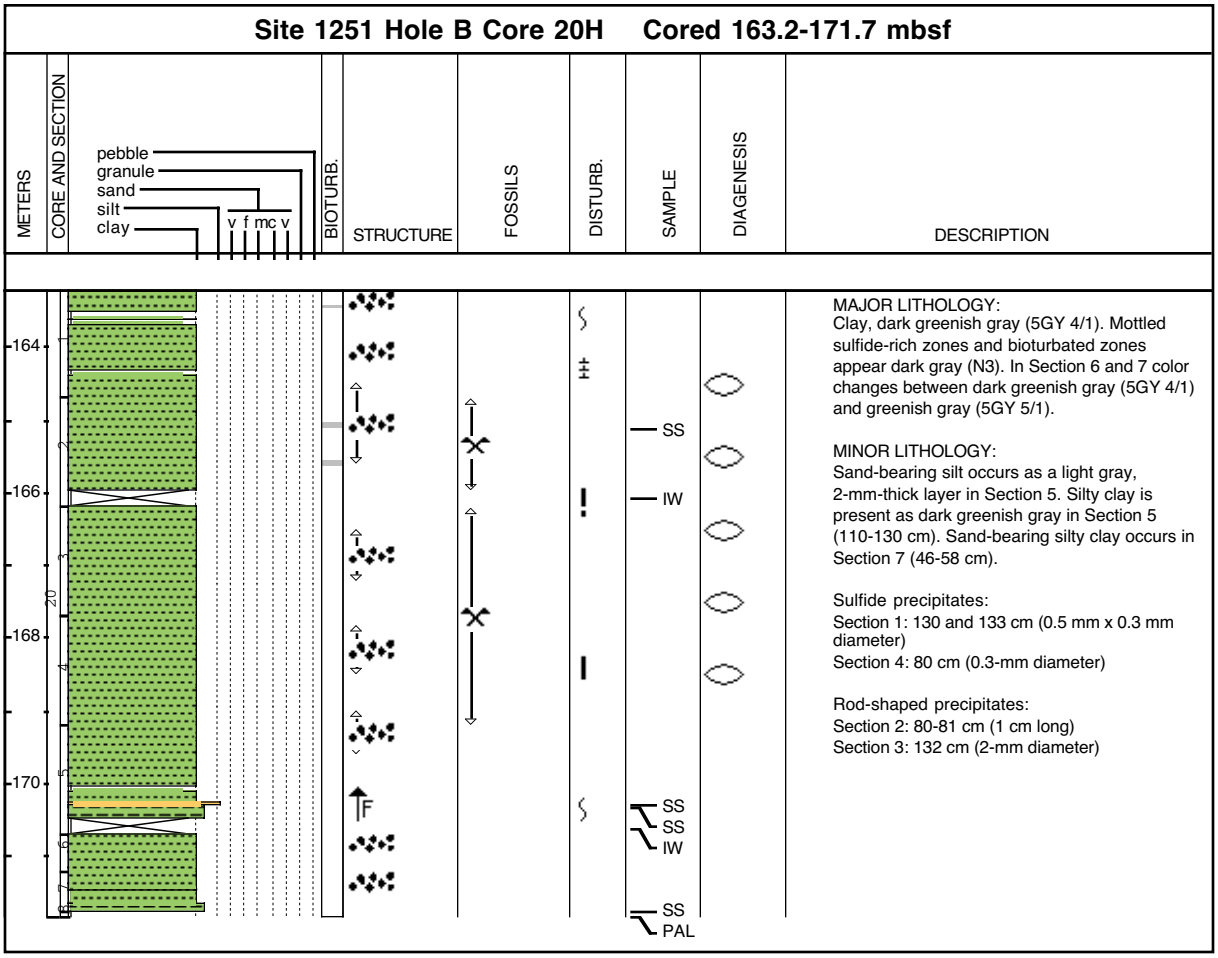
Core Photo


Site 1251 Hole B Core 18P Cored 153.6-154.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1).
Homogeneous clay with one small zone of sulfide material at 45-46 cm.

Core Photo


Site 1251 Hole B Core 19H Cored 155.6-163.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
156
158
160
162
19
1
2
3
4
5
6
7
SS
IW
SS
SS
IW
SS
PAL
MAIN LITHOLOGY:
Clay, dark greenish gray (5GY 4/1). Sulfide material is present along the core. Bioturbation is moderate.

Core Photo


Site 1251 Hole B Core 20H Cored 163.2-171.7 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
164
166
168
170
20
SS
IW
SS
SS
IW
SS
PAL
F
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1). Mottled sulfide-rich zones and bioturbated zones appear dark gray (N3). In Section 6 and 7 color changes between dark greenish gray (5GY 4/1) and greenish gray (5GY 5/1).
MINOR LITHOLOGY:
Sand-bearing silt occurs as a light gray, 2-mm-thick layer in Section 5. Silty clay is present as dark greenish gray in Section 5 (110-130 cm). Sand-bearing silty clay occurs in Section 7 (46-58 cm).
Sulfide precipitates:
Section 1: 130 and 133 cm (0.5 mm x 0.3 mm diameter)
Section 4: 80 cm (0.3-mm diameter)
Rod-shaped precipitates:
Section 2: 80-81 cm (1 cm long)
Section 3: 132 cm (2-mm diameter)

Core Photo

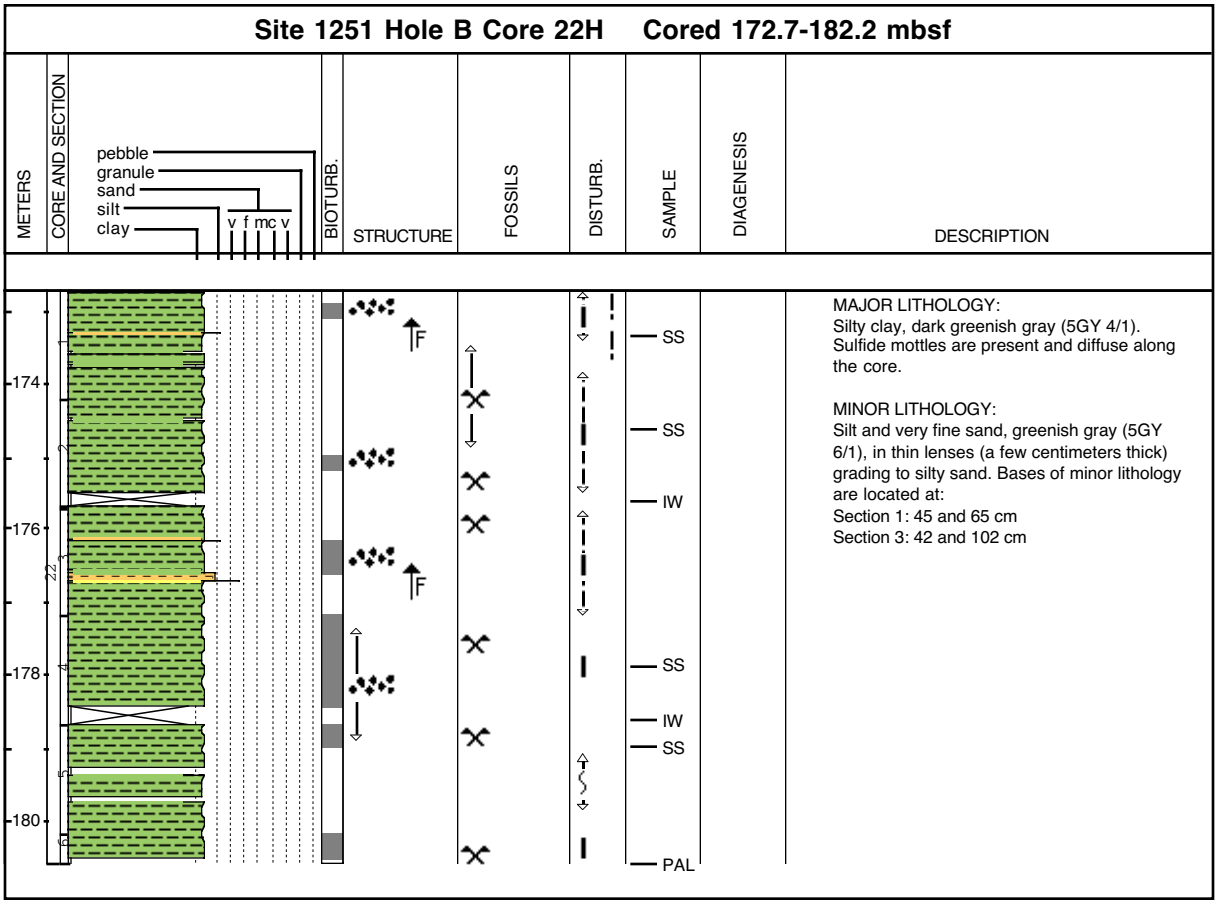
Site 1251 Hole B Core 21Y Cored 171.7-172.7 mbsf

METERS | CORE AND SECTION | pebble, granule, sand, silt, clay; v f mc v | BIOTURB. | STRUCTURE | FOSSILS | DISTURB. | SAMPLE | DIAGENESIS | DESCRIPTION

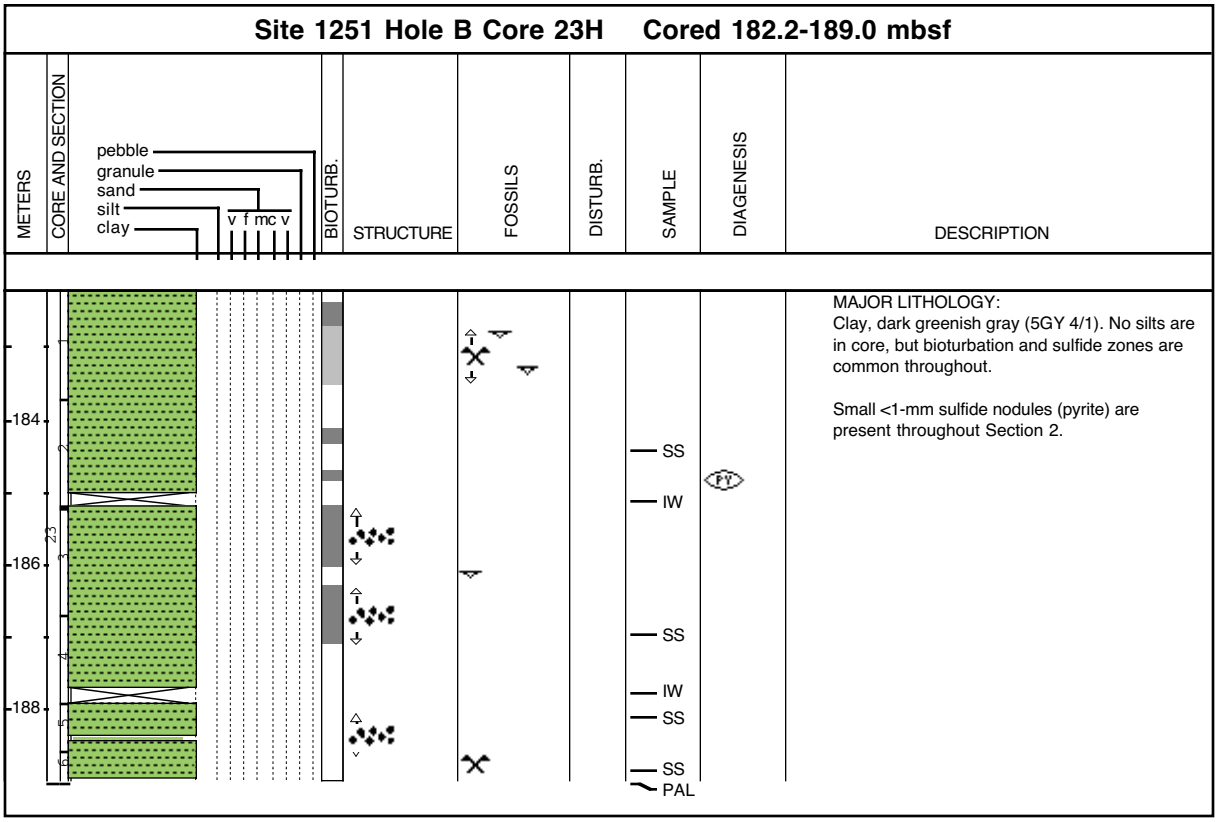
172

MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1). This core contains only one section. It was drilled using the experimental HYACINTH-FPC tool able to take pressure samples up to 1 m long. The liner exploded on the catwalk, and only fragments of the core, with no stratigraphical position, were finally recovered.

Core Photo

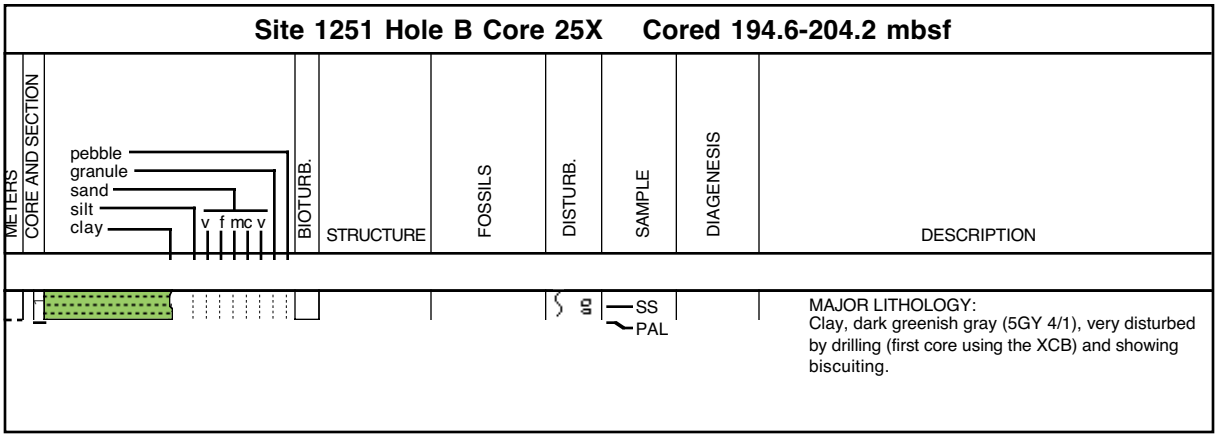

Site 1251 Hole B Core 22H Cored 172.7-182.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
174
176
178
180
22
F
F
SS
SS
IW
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1). Sulfide mottles are present and diffuse along the core.
MINOR LITHOLOGY:
Silt and very fine sand, greenish gray (5GY 6/1), in thin lenses (a few centimeters thick) grading to silty sand. Bases of minor lithology are located at:
Section 1: 45 and 65 cm
Section 3: 42 and 102 cm

Core Photo

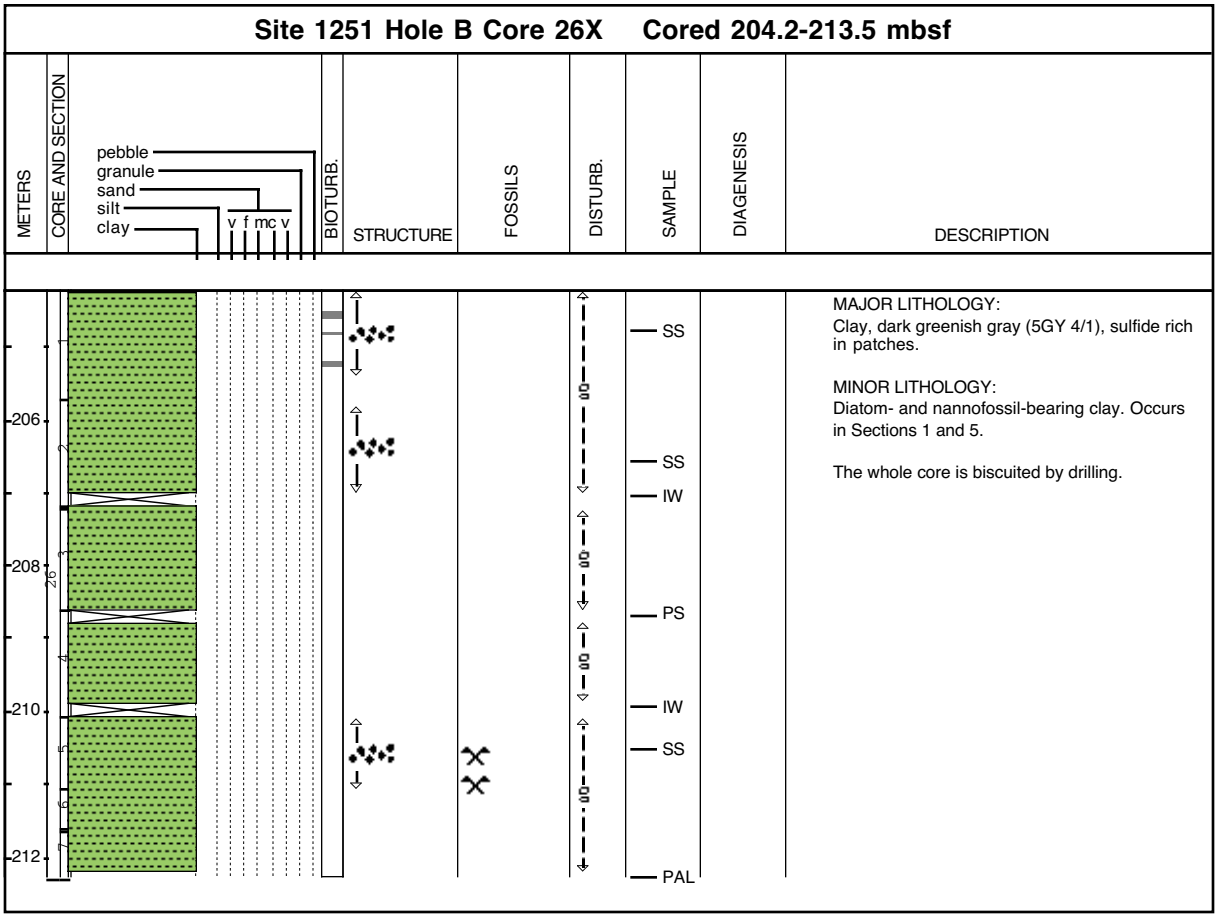


1251B-24H No Recovery

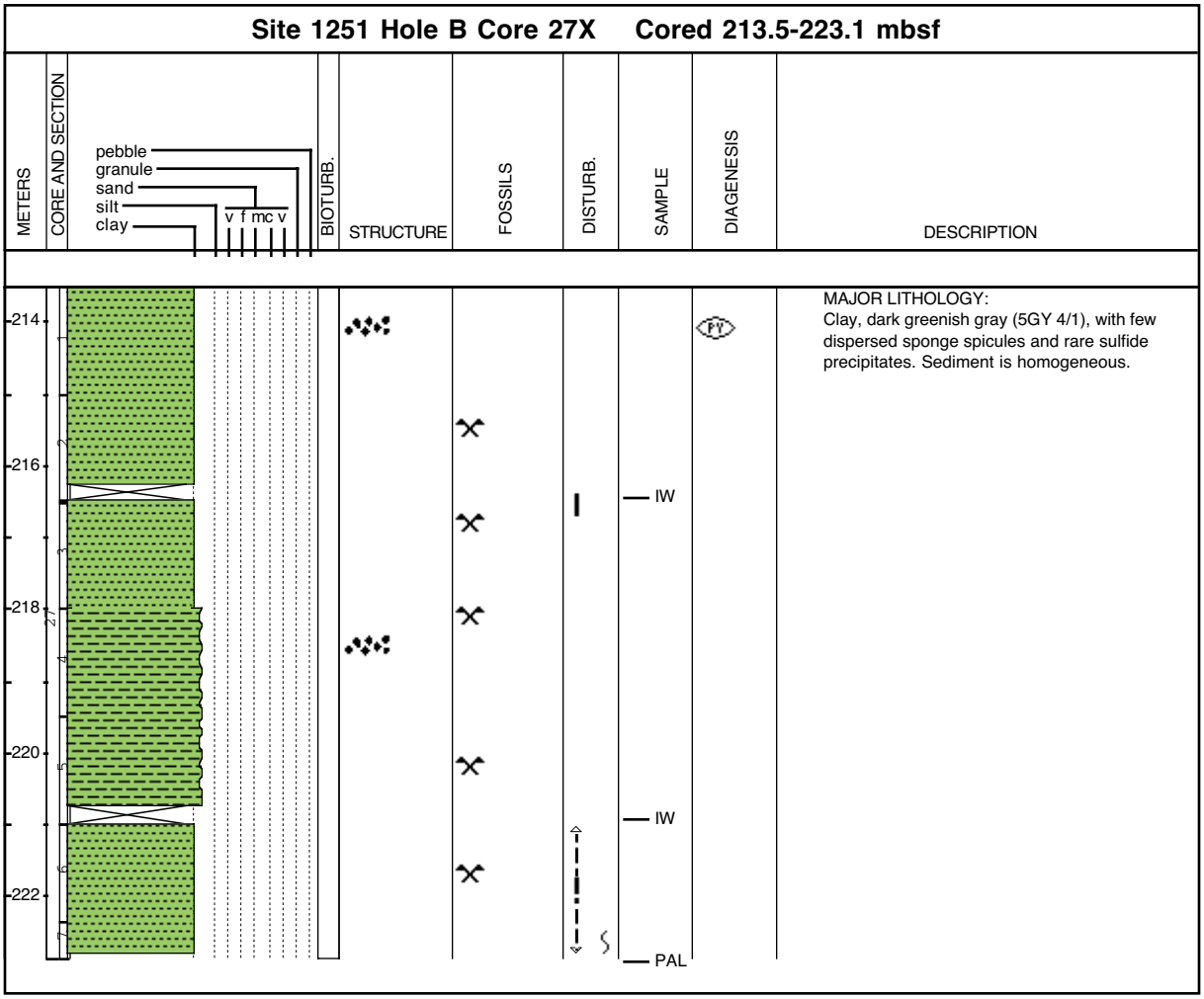
Core Photo


Site 1251 Hole B Core 25X Cored 194.6-204.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
SS
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1), very disturbed by drilling (first core using the XCB) and showing biscuiting.

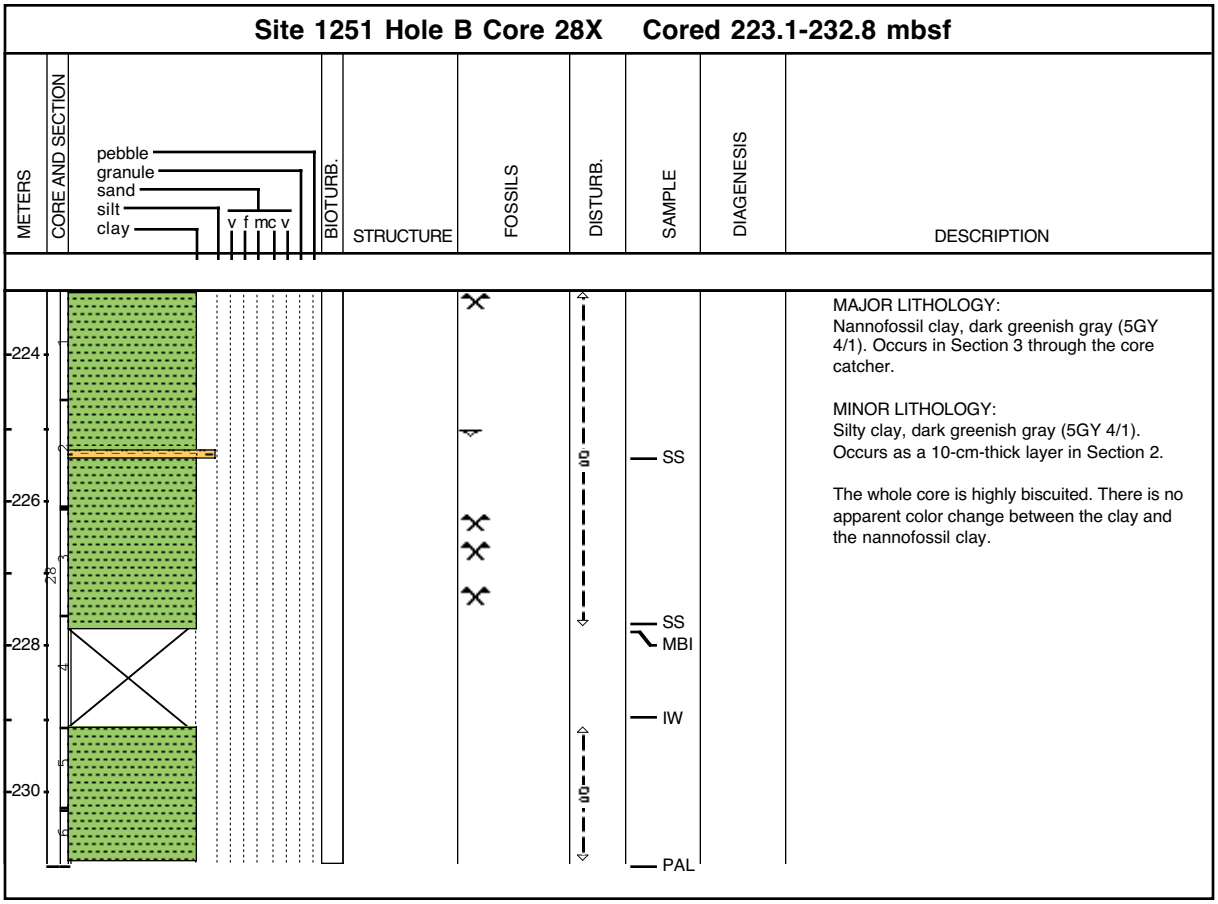
Core Photo


Site 1251 Hole B Core 26X Cored 204.2-213.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
206
208
210
212
26
SS
SS
IW
PS
IW
SS
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1), sulfide rich in patches.
MINOR LITHOLOGY:
Diatom- and nannofossil-bearing clay. Occurs in Sections 1 and 5.
The whole core is biscuited by drilling.

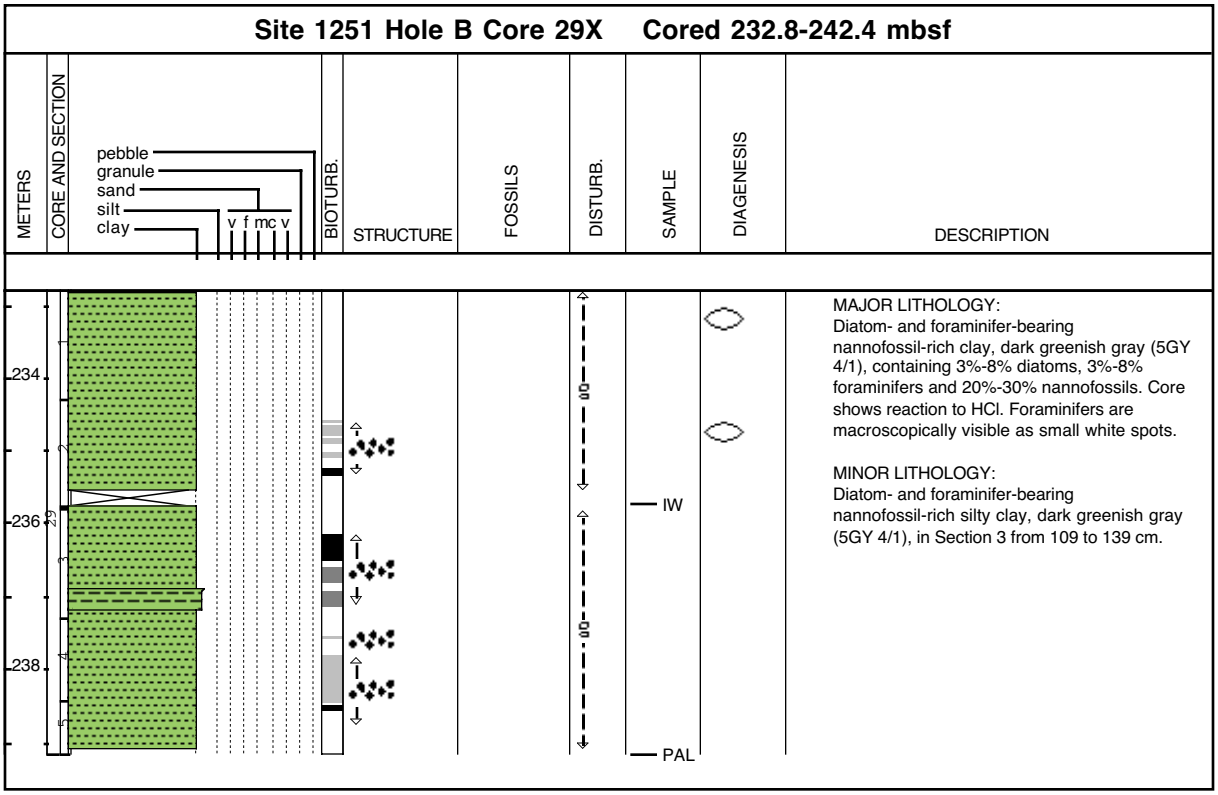
Core Photo


Site 1251 Hole B Core 27X Cored 213.5-223.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
214
216
218
220
222
27
1
2
3
4
5
6
7
IW
IW
PAL
PY
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1), with few dispersed sponge spicules and rare sulfide precipitates. Sediment is homogeneous.

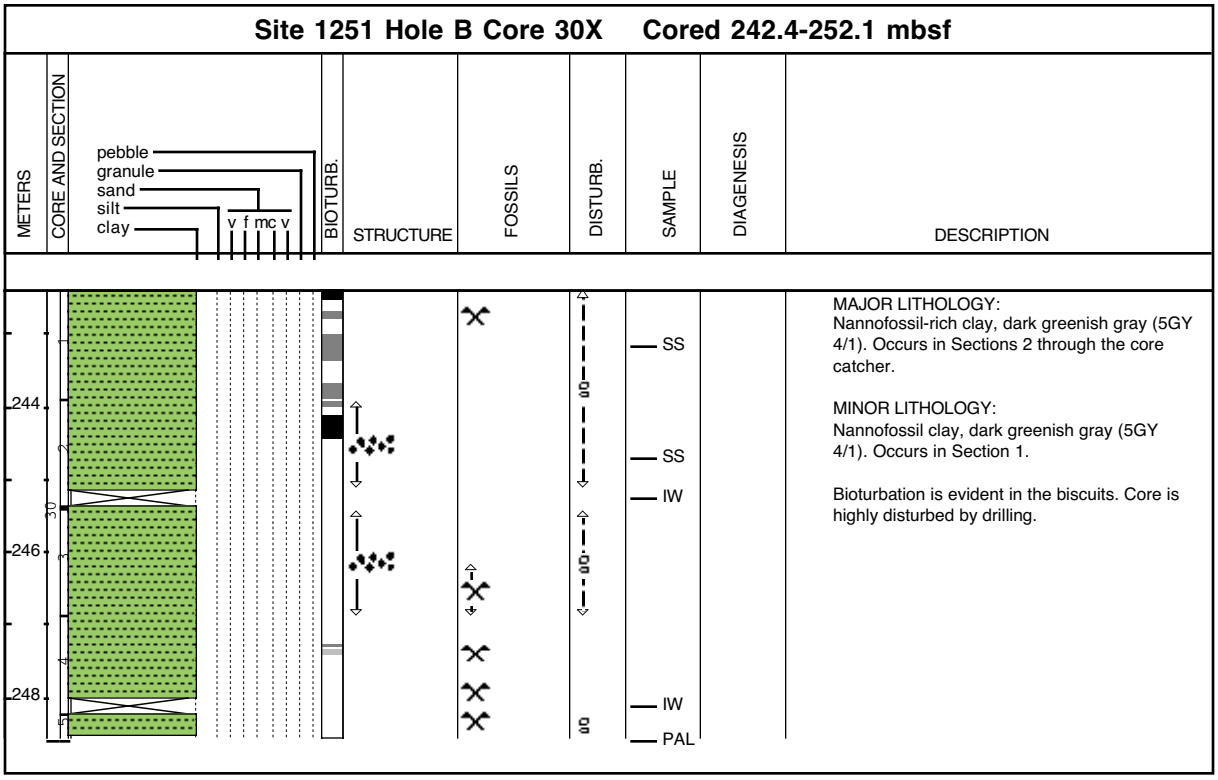
Core Photo


Site 1251 Hole B Core 28X Cored 223.1-232.8 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
224
226
228
230
28
SS
SS
MBI
IW
PAL
MAJOR LITHOLOGY:
Nannofossil clay, dark greenish gray (5GY 4/1). Occurs in Section 3 through the core catcher.
MINOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1). Occurs as a 10-cm-thick layer in Section 2.
The whole core is highly biscuited. There is no apparent color change between the clay and the nannofossil clay.

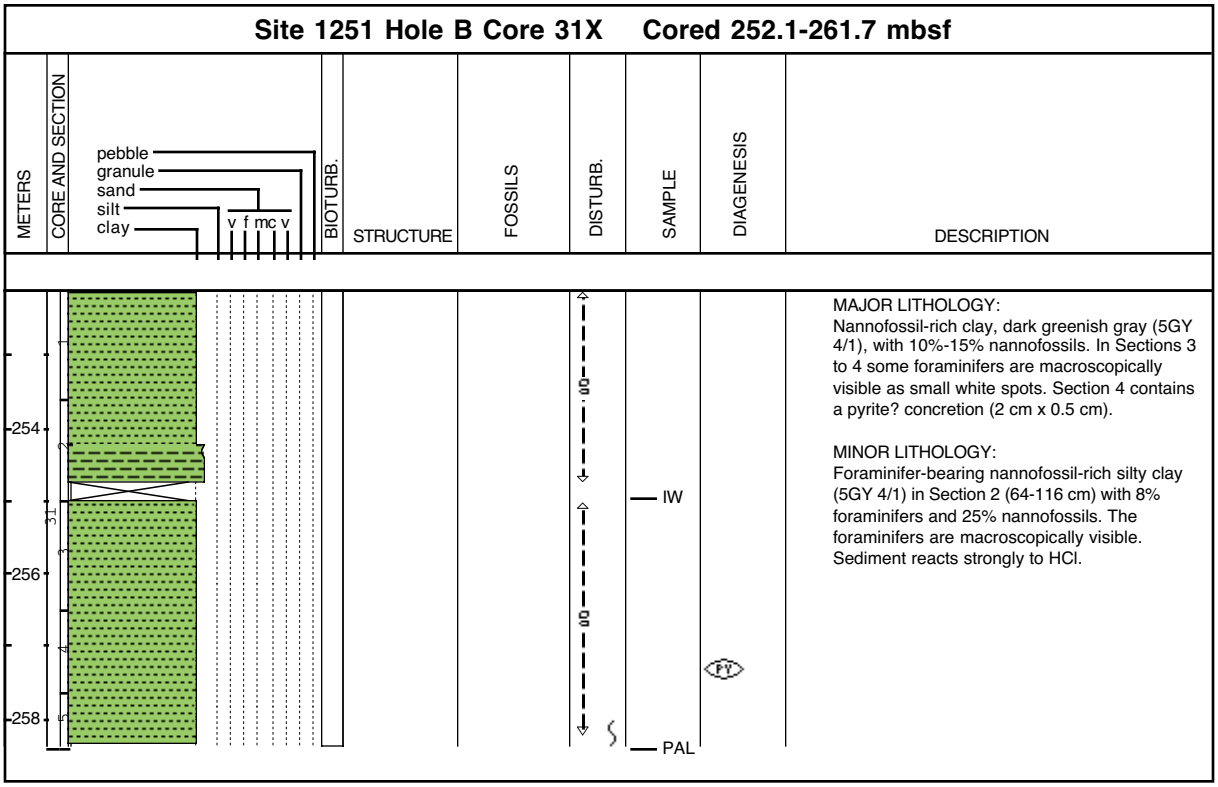
Core Photo


Site 1251 Hole B Core 29X Cored 232.8-242.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
234
236
238
29
1
2
3
4
5
IW
PAL
MAJOR LITHOLOGY:
Diatom- and foraminifer-bearing nannofossil-rich clay, dark greenish gray (5GY 4/1), containing 3%-8% diatoms, 3%-8% foraminifers and 20%-30% nannofossils. Core shows reaction to HCl. Foraminifers are macroscopically visible as small white spots.
MINOR LITHOLOGY:
Diatom- and foraminifer-bearing nannofossil-rich silty clay, dark greenish gray (5GY 4/1), in Section 3 from 109 to 139 cm.

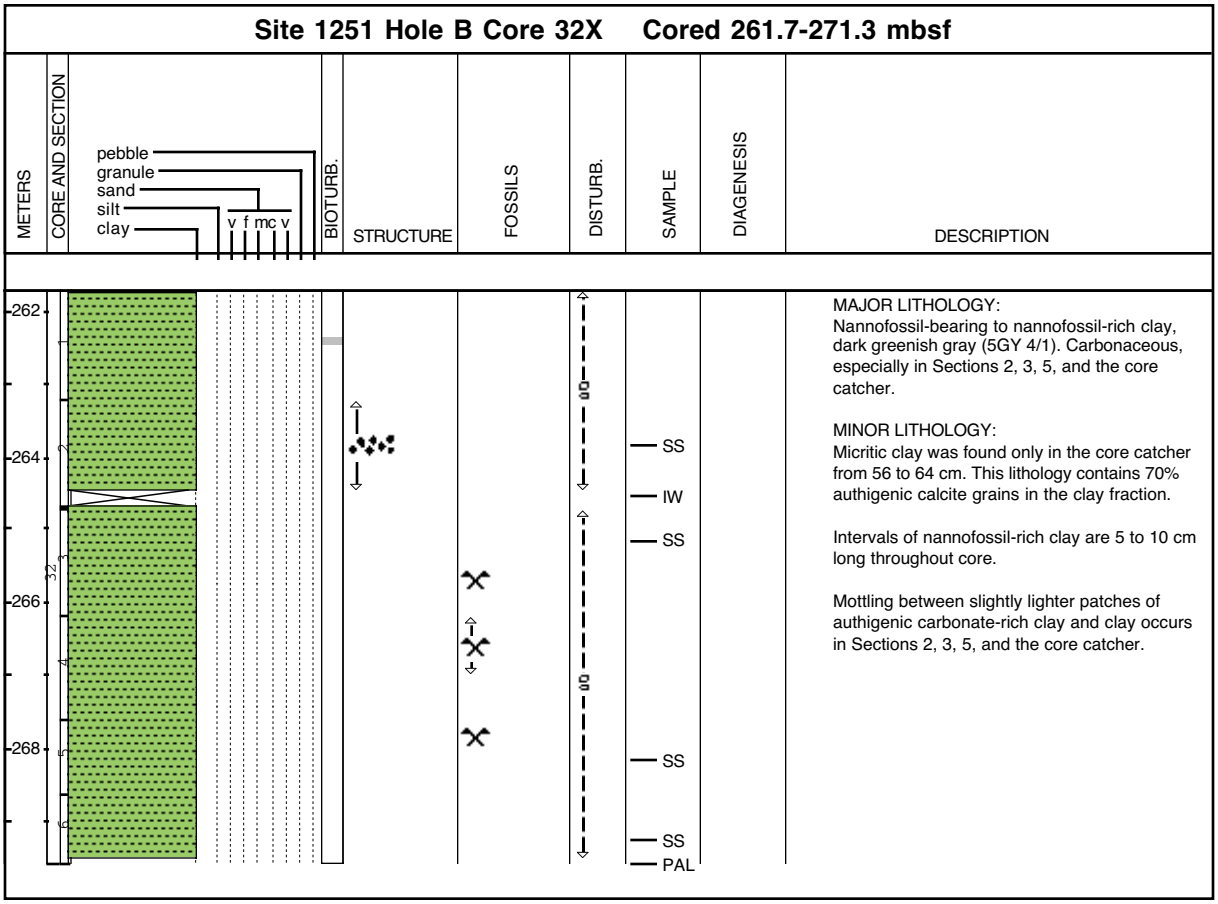
Core Photo


Site 1251 Hole B Core 30X Cored 242.4-252.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
244
246
248
30
1
2
3
4
5
SS
SS
IW
IW
PAL
MAJOR LITHOLOGY:
Nannofossil-rich clay, dark greenish gray (5GY 4/1). Occurs in Sections 2 through the core catcher.
MINOR LITHOLOGY:
Nannofossil clay, dark greenish gray (5GY 4/1). Occurs in Section 1.
Bioturbation is evident in the biscuits. Core is highly disturbed by drilling.

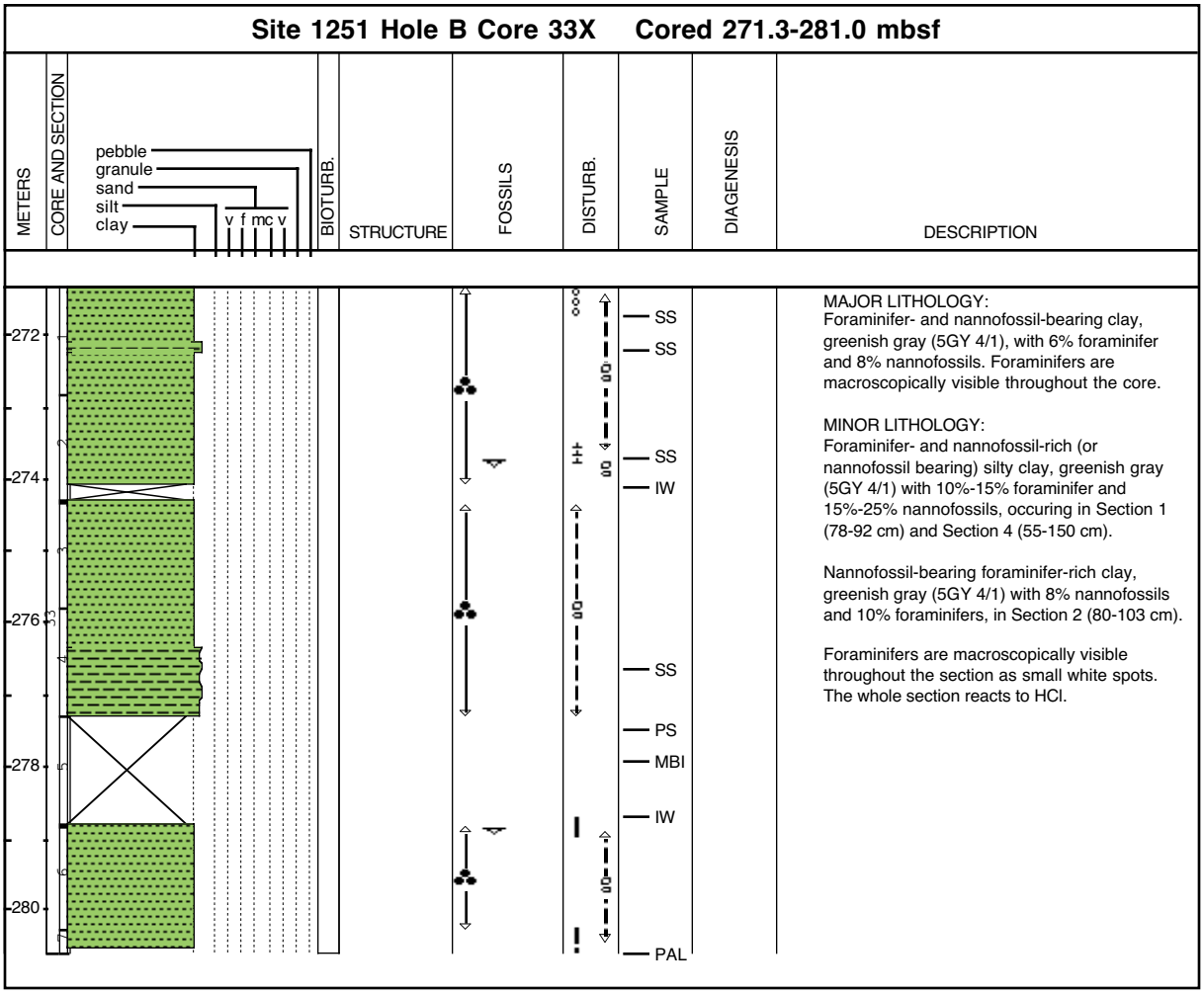
Core Photo


Site 1251 Hole B Core 31X Cored 252.1-261.7 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
254
256
258
31
1
2
3
4
5
IW
PAL
PY
MAJOR LITHOLOGY:
Nannofossil-rich clay, dark greenish gray (5GY 4/1), with 10%-15% nannofossils. In Sections 3 to 4 some foraminifers are macroscopically visible as small white spots. Section 4 contains a pyrite? concretion (2 cm x 0.5 cm).
MINOR LITHOLOGY:
Foraminifer-bearing nannofossil-rich silty clay (5GY 4/1) in Section 2 (64-116 cm) with 8% foraminifers and 25% nannofossils. The foraminifers are macroscopically visible. Sediment reacts strongly to HCl.

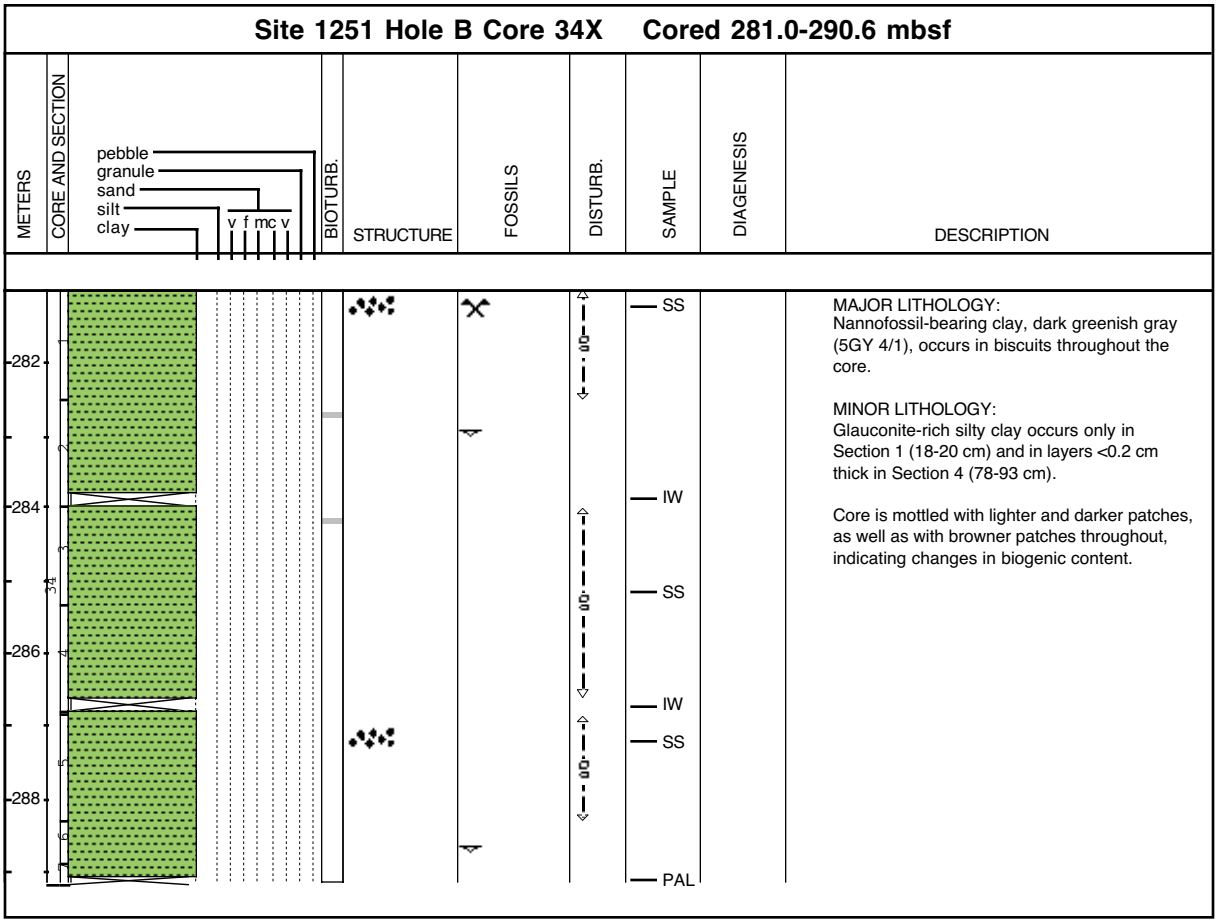
Core Photo


Site 1251 Hole B Core 32X Cored 261.7-271.3 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
262
264
266
268
32
1
2
3
4
5
6
SS
IW
SS
SS
SS
PAL
MAJOR LITHOLOGY:
Nannofossil-bearing to nannofossil-rich clay, dark greenish gray (5GY 4/1). Carbonaceous, especially in Sections 2, 3, 5, and the core catcher.
MINOR LITHOLOGY:
Micritic clay was found only in the core catcher from 56 to 64 cm. This lithology contains 70% authigenic calcite grains in the clay fraction.
Intervals of nannofossil-rich clay are 5 to 10 cm long throughout core.
Mottling between slightly lighter patches of authigenic carbonate-rich clay and clay occurs in Sections 2, 3, 5, and the core catcher.

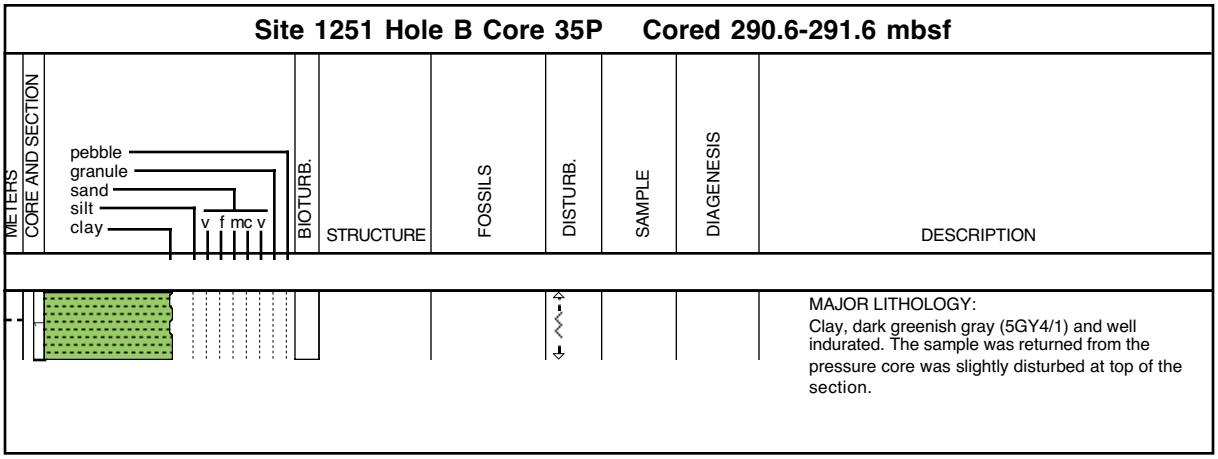
Core Photo


Site 1251 Hole B Core 33X Cored 271.3-281.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
272
274
276
278
280
SS
SS
SS
IW
SS
PS
MBI
IW
PAL
MAJOR LITHOLOGY:
Foraminifer- and nannofossil-bearing clay, greenish gray (5GY 4/1), with 6% foraminifer and 8% nannofossils. Foraminifers are macroscopically visible throughout the core.
MINOR LITHOLOGY:
Foraminifer- and nannofossil-rich (or nannofossil bearing) silty clay, greenish gray (5GY 4/1) with 10%-15% foraminifer and 15%-25% nannofossils, occuring in Section 1 (78-92 cm) and Section 4 (55-150 cm).
Nannofossil-bearing foraminifer-rich clay, greenish gray (5GY 4/1) with 8% nannofossils and 10% foraminifers, in Section 2 (80-103 cm).
Foraminifers are macroscopically visible throughout the section as small white spots. The whole section reacts to HCl.

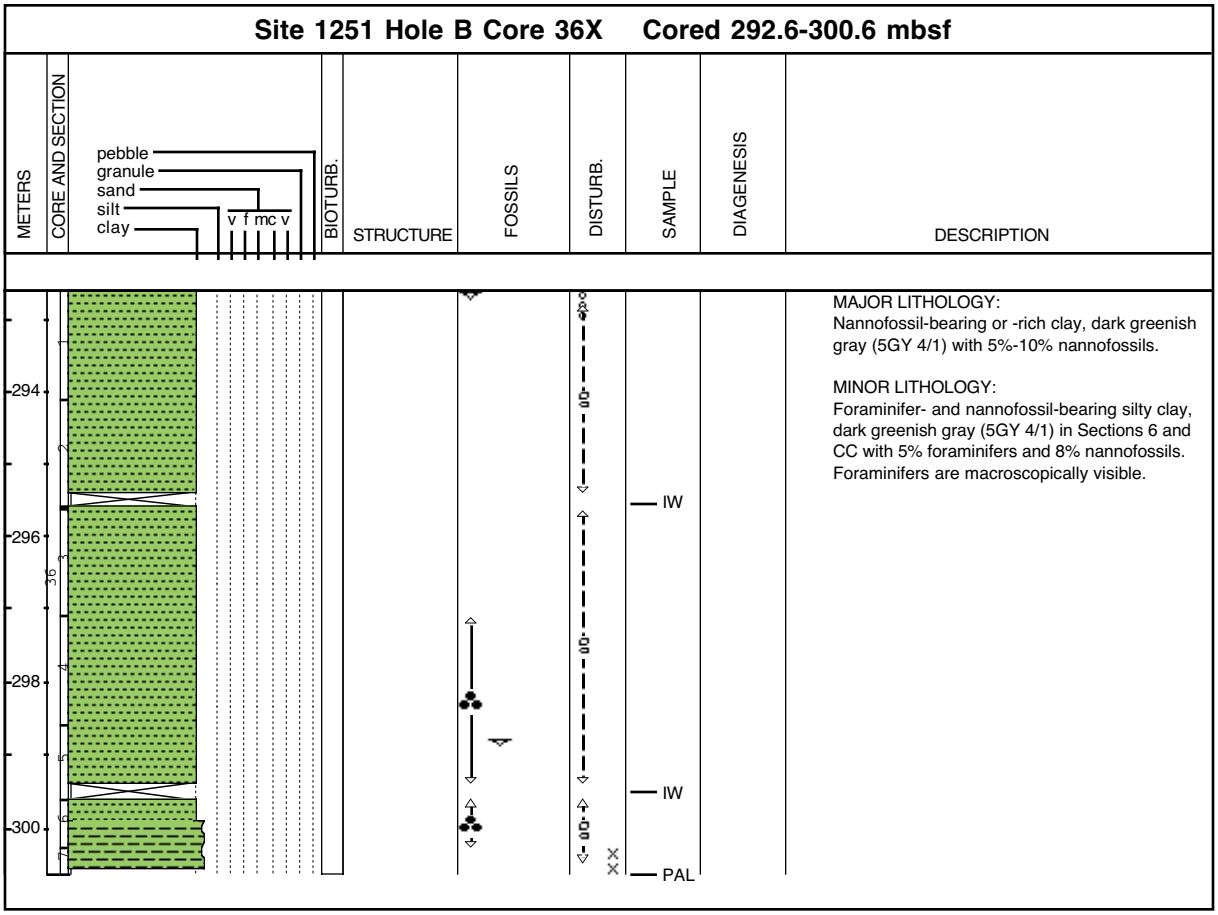
Core Photo


Site 1251 Hole B Core 34X Cored 281.0-290.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
282
284
286
288
34
SS
IW
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Nannofossil-bearing clay, dark greenish gray (5GY 4/1), occurs in biscuits throughout the core.
MINOR LITHOLOGY:
Glauconite-rich silty clay occurs only in Section 1 (18-20 cm) and in layers <0.2 cm thick in Section 4 (78-93 cm).
Core is mottled with lighter and darker patches, as well as with browner patches throughout, indicating changes in biogenic content.

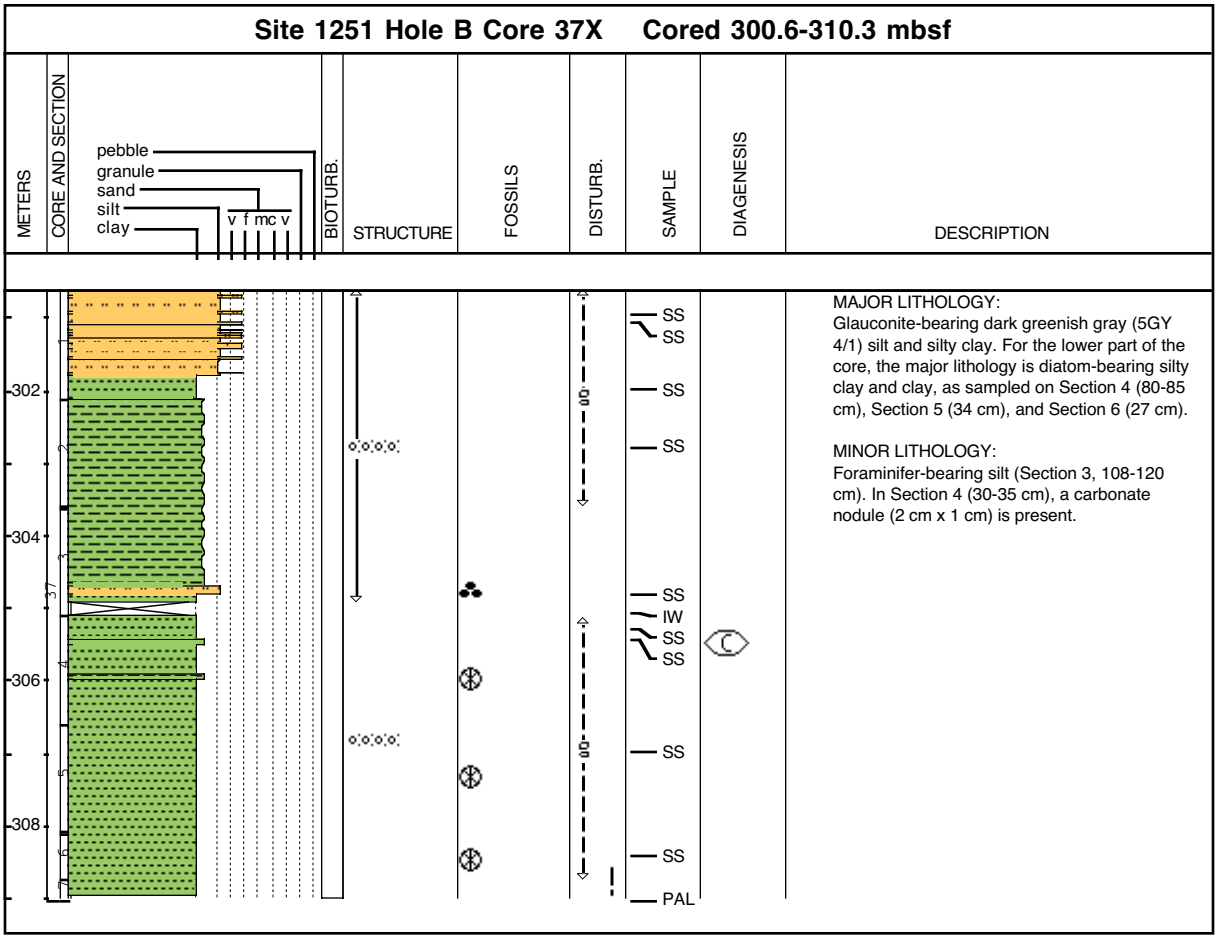
Core Photo


Site 1251 Hole B Core 35P Cored 290.6-291.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY4/1) and well indurated. The sample was returned from the pressure core was slightly disturbed at top of the section.

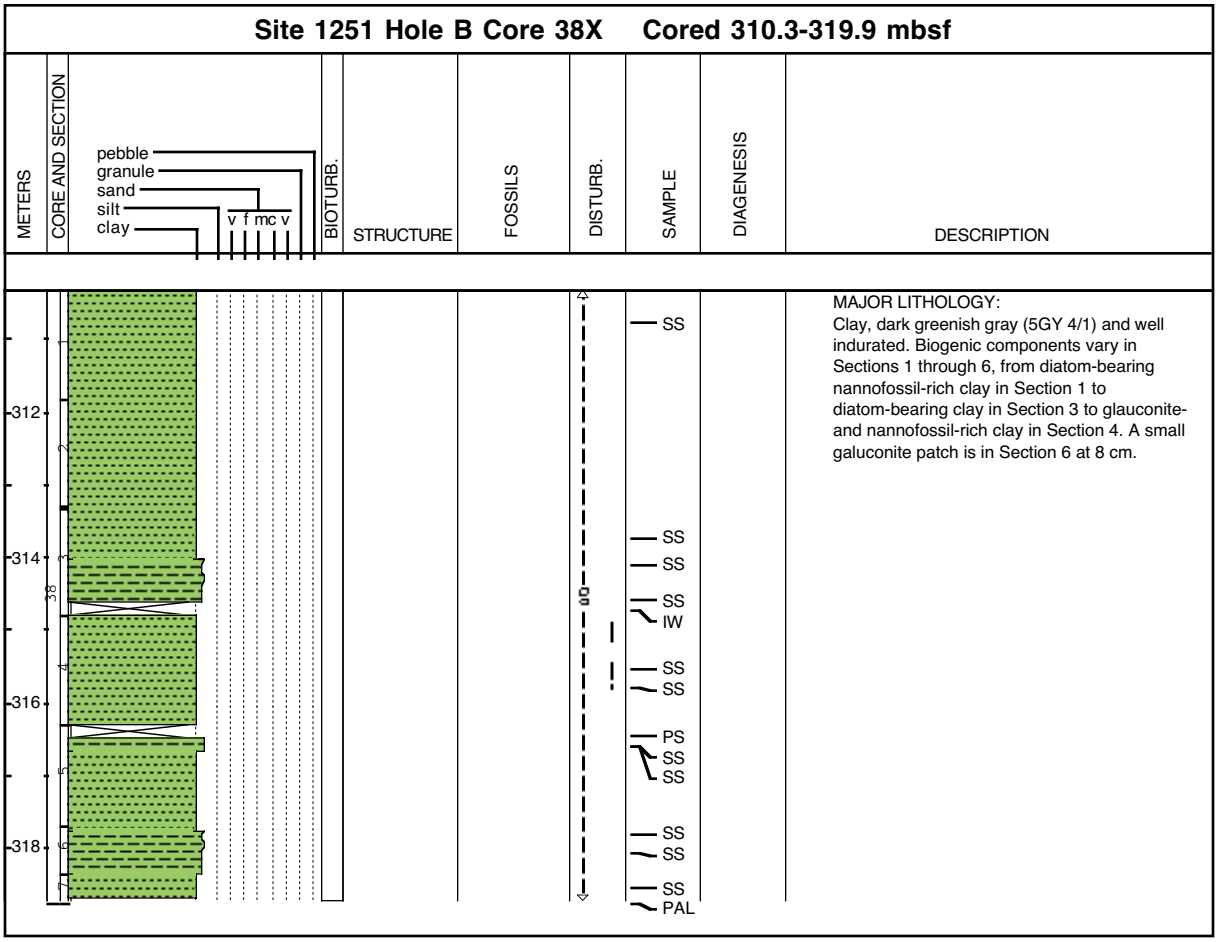
Core Photo


Site 1251 Hole B Core 36X Cored 292.6-300.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
294
296
298
300
36
IW
IW
PAL
MAJOR LITHOLOGY:
Nannofossil-bearing or -rich clay, dark greenish gray (5GY 4/1) with 5%-10% nannofossils.
MINOR LITHOLOGY:
Foraminifer- and nannofossil-bearing silty clay, dark greenish gray (5GY 4/1) in Sections 6 and CC with 5% foraminifers and 8% nannofossils. Foraminifers are macroscopically visible.

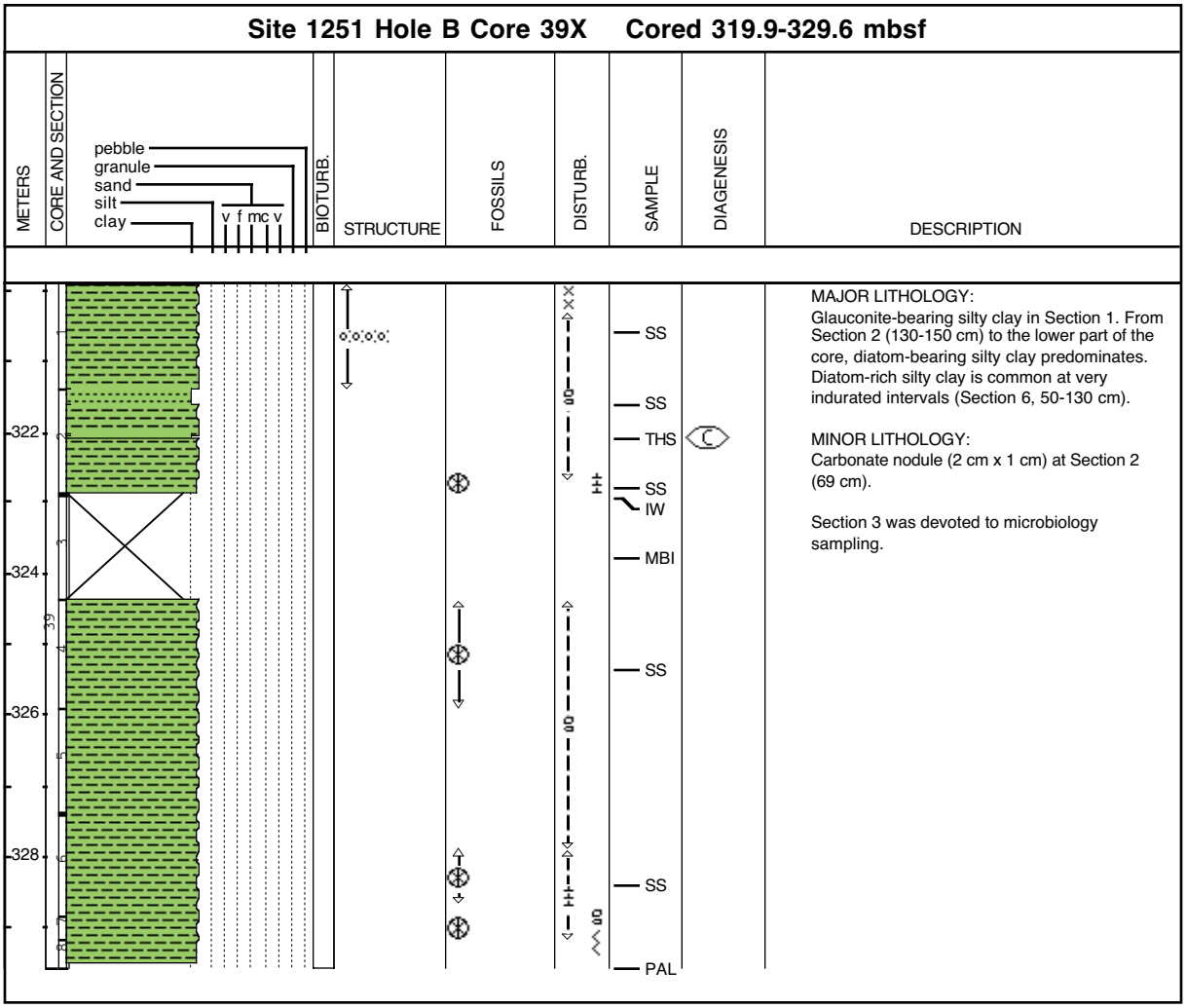
Core Photo


Site 1251 Hole B Core 37X Cored 300.6-310.3 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
302
304
306
308
37
1
2
3
4
5
6
7
SS
SS
SS
SS
SS
IW
SS
SS
SS
SS
PAL
C
MAJOR LITHOLOGY:
Glauconite-bearing dark greenish gray (5GY 4/1) silt and silty clay. For the lower part of the core, the major lithology is diatom-bearing silty clay and clay, as sampled on Section 4 (80-85 cm), Section 5 (34 cm), and Section 6 (27 cm).
MINOR LITHOLOGY:
Foraminifer-bearing silt (Section 3, 108-120 cm). In Section 4 (30-35 cm), a carbonate nodule (2 cm x 1 cm) is present.

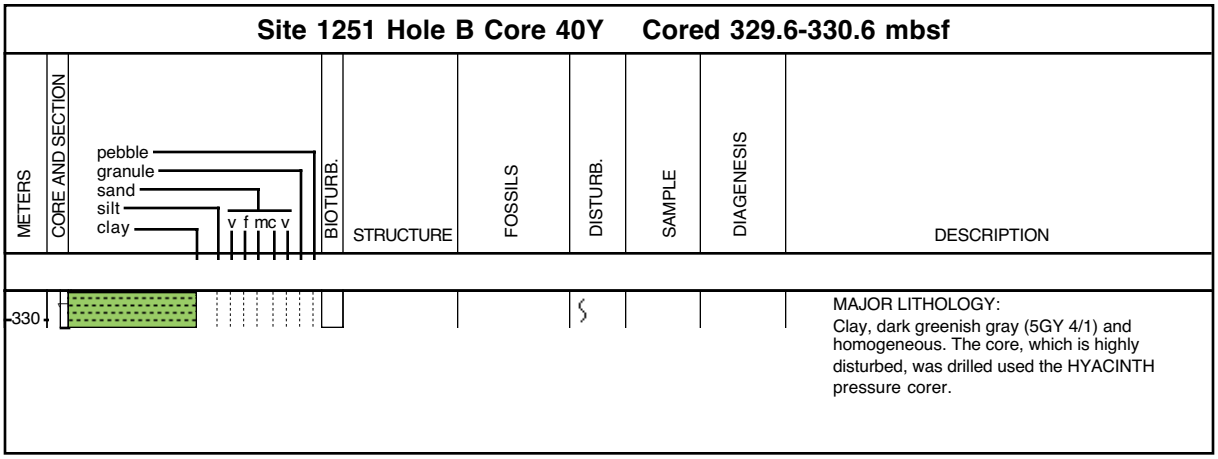
Core Photo


Site 1251 Hole B Core 38X Cored 310.3-319.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
312
314
316
318
38
1
2
3
4
5
6
7
SS
SS
SS
IW
SS
SS
PS
SS
SS
SS
SS
SS
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1) and well indurated. Biogenic components vary in Sections 1 through 6, from diatom-bearing nannofossil-rich clay in Section 1 to diatom-bearing clay in Section 3 to glauconite- and nannofossil-rich clay in Section 4. A small galuconite patch is in Section 6 at 8 cm.

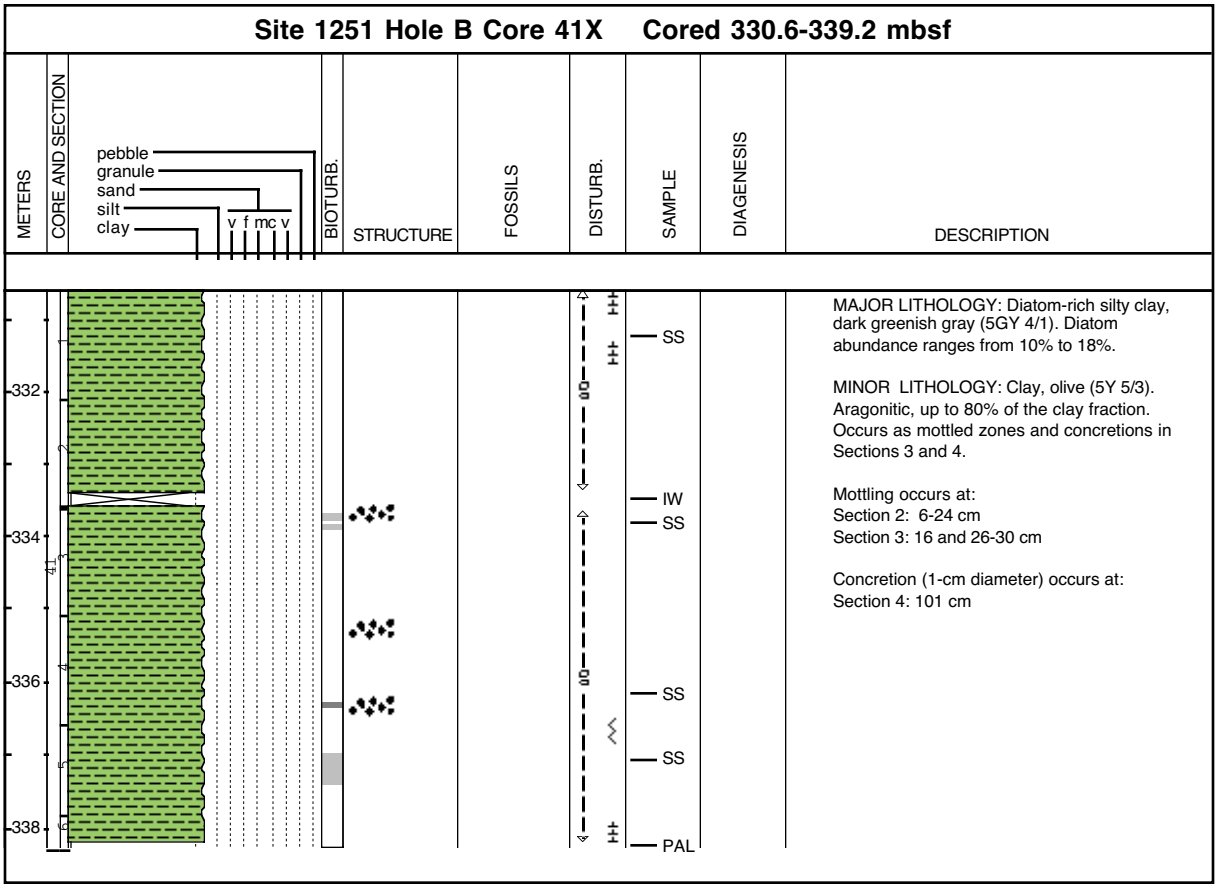
Core Photo


Site 1251 Hole B Core 39X Cored 319.9-329.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
322
324
326
328
39
SS
SS
THS
C
SS
IW
MBI
SS
SS
PAL
MAJOR LITHOLOGY:
Glauconite-bearing silty clay in Section 1. From Section 2 (130-150 cm) to the lower part of the core, diatom-bearing silty clay predominates. Diatom-rich silty clay is common at very indurated intervals (Section 6, 50-130 cm).
MINOR LITHOLOGY:
Carbonate nodule (2 cm x 1 cm) at Section 2 (69 cm).
Section 3 was devoted to microbiology sampling.

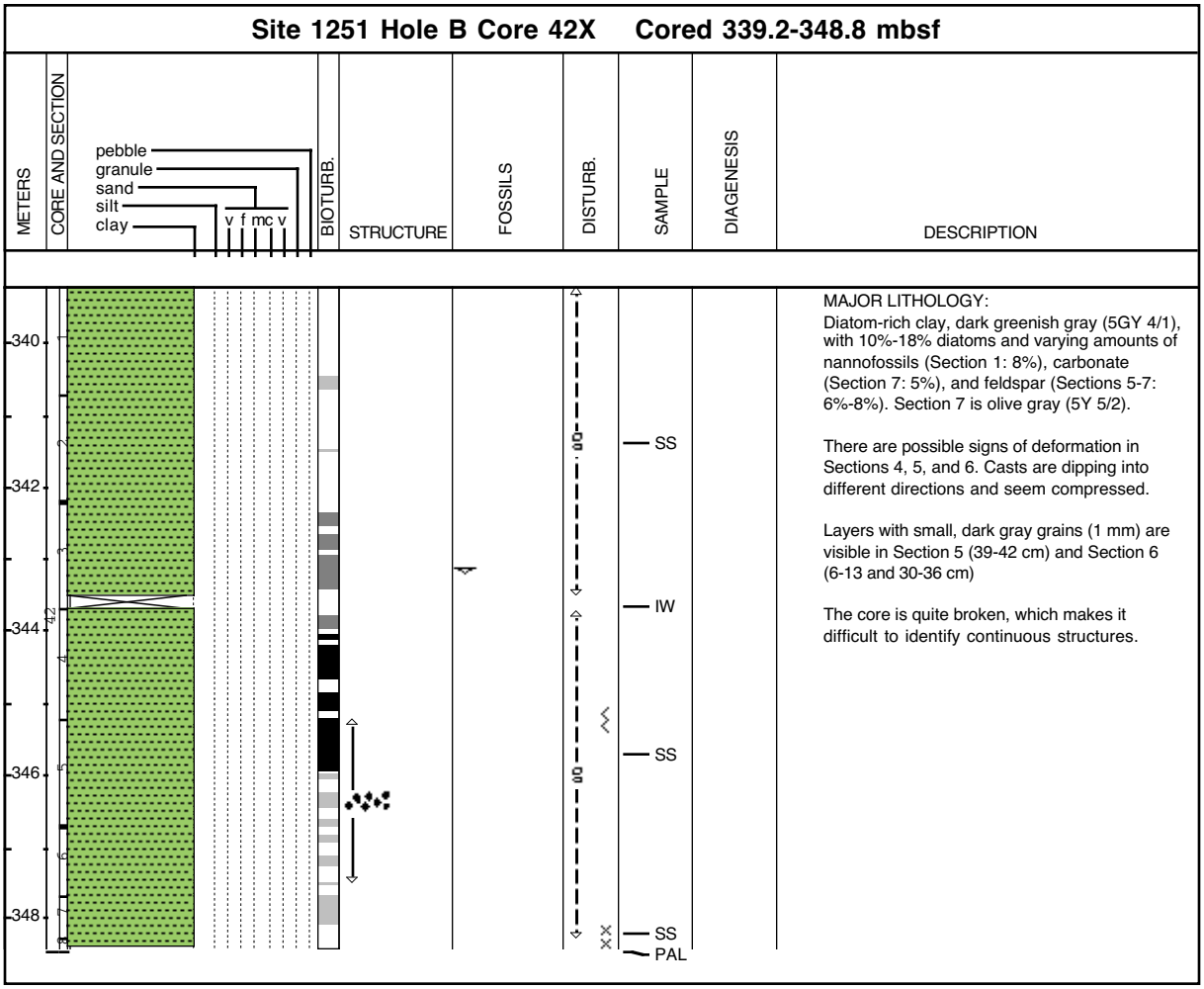
Core Photo


Site 1251 Hole B Core 40Y Cored 329.6-330.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
330
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1) and homogeneous. The core, which is highly disturbed, was drilled used the HYACINTH pressure corer.

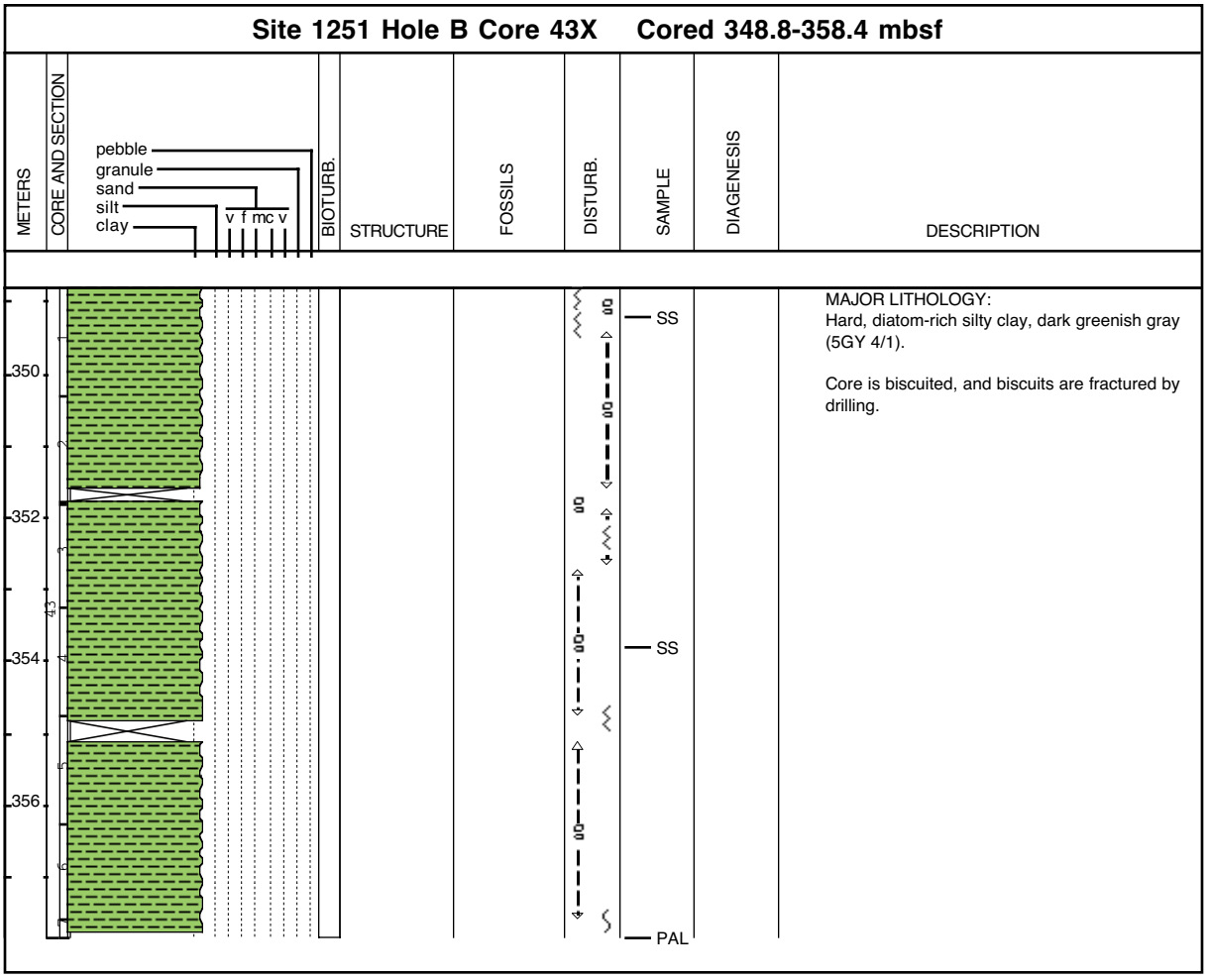
Core Photo


Site 1251 Hole B Core 41X Cored 330.6-339.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
332
334
336
338
SS
IW
SS
SS
SS
PAL
MAJOR LITHOLOGY: Diatom-rich silty clay, dark greenish gray (5GY 4/1). Diatom abundance ranges from 10% to 18%.
MINOR LITHOLOGY: Clay, olive (5Y 5/3). Aragonitic, up to 80% of the clay fraction. Occurs as mottled zones and concretions in Sections 3 and 4.
Mottling occurs at:
Section 2: 6-24 cm
Section 3: 16 and 26-30 cm
Concretion (1-cm diameter) occurs at:
Section 4: 101 cm

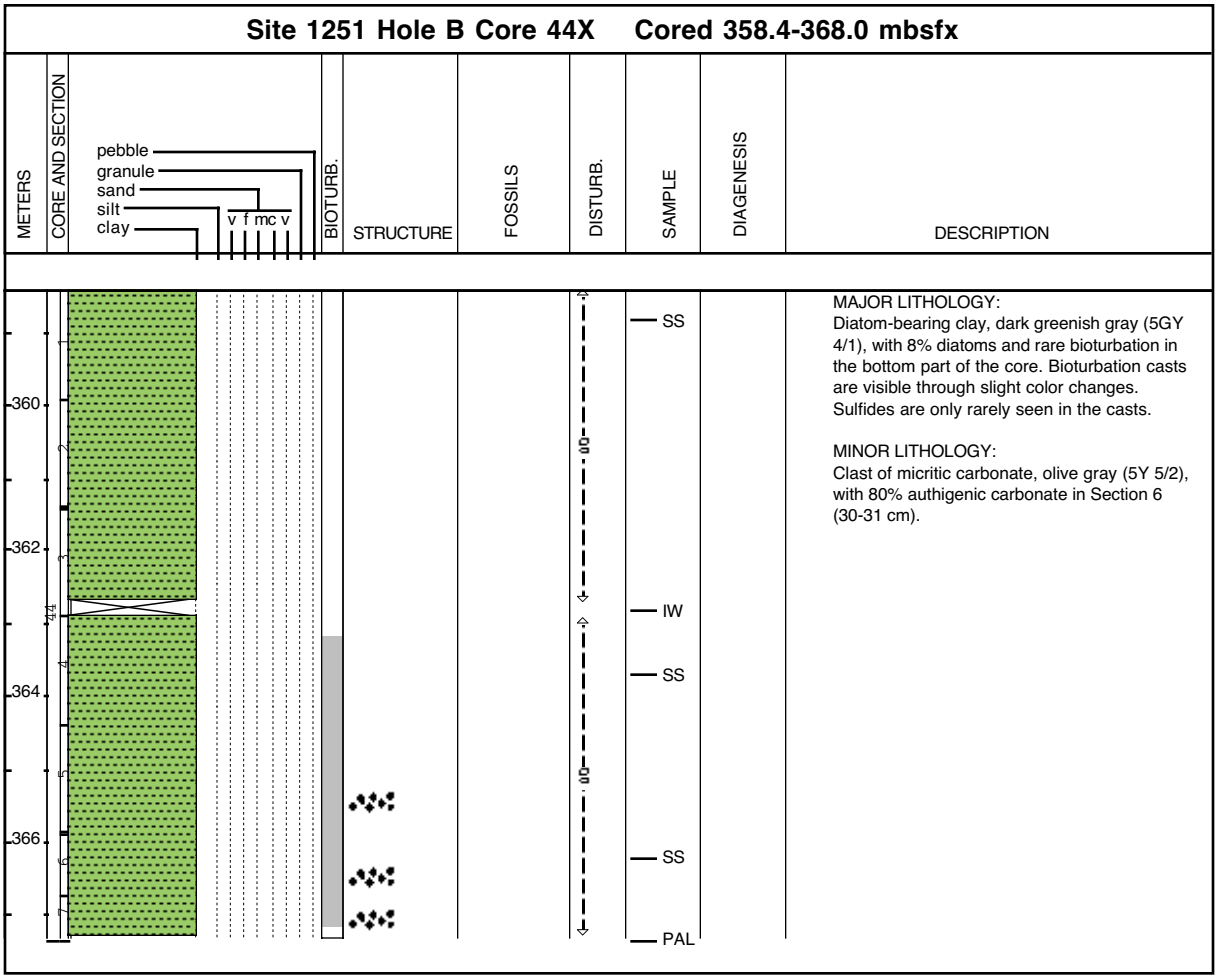
Core Photo


Site 1251 Hole B Core 42X Cored 339.2-348.8 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
340
342
344
346
348
42
1
2
3
4
5
6
7
SS
IW
SS
SS
PAL
MAJOR LITHOLOGY:
Diatom-rich clay, dark greenish gray (5GY 4/1), with 10%-18% diatoms and varying amounts of nannofossils (Section 1: 8%), carbonate (Section 7: 5%), and feldspar (Sections 5-7: 6%-8%). Section 7 is olive gray (5Y 5/2).
There are possible signs of deformation in Sections 4, 5, and 6. Casts are dipping into different directions and seem compressed.
Layers with small, dark gray grains (1 mm) are visible in Section 5 (39-42 cm) and Section 6 (6-13 and 30-36 cm)
The core is quite broken, which makes it difficult to identify continuous structures.

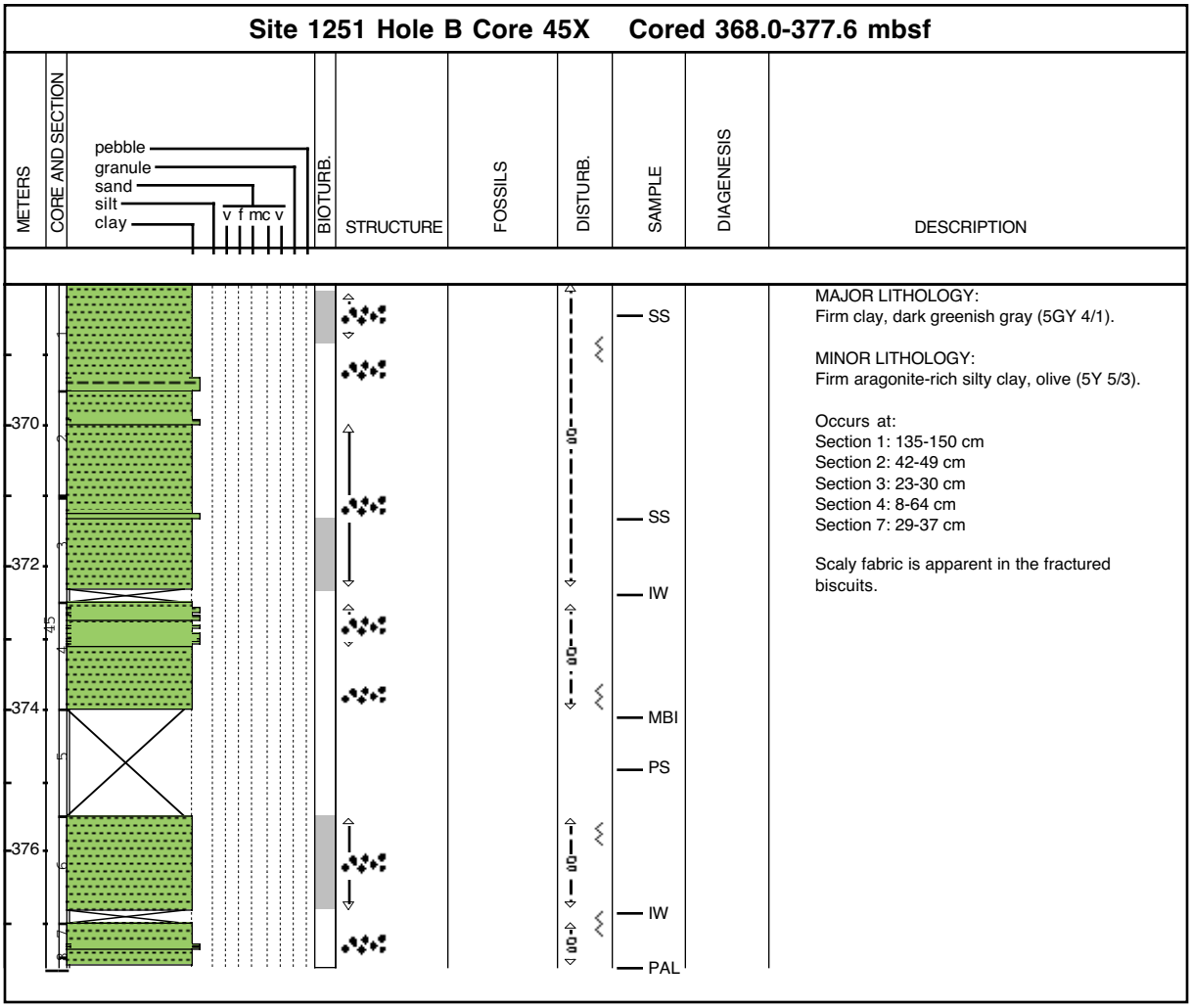
Core Photo


Site 1251 Hole B Core 43X Cored 348.8-358.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
350
352
354
356
43
SS
SS
PAL
MAJOR LITHOLOGY:
Hard, diatom-rich silty clay, dark greenish gray (5GY 4/1).
Core is biscuited, and biscuits are fractured by drilling.

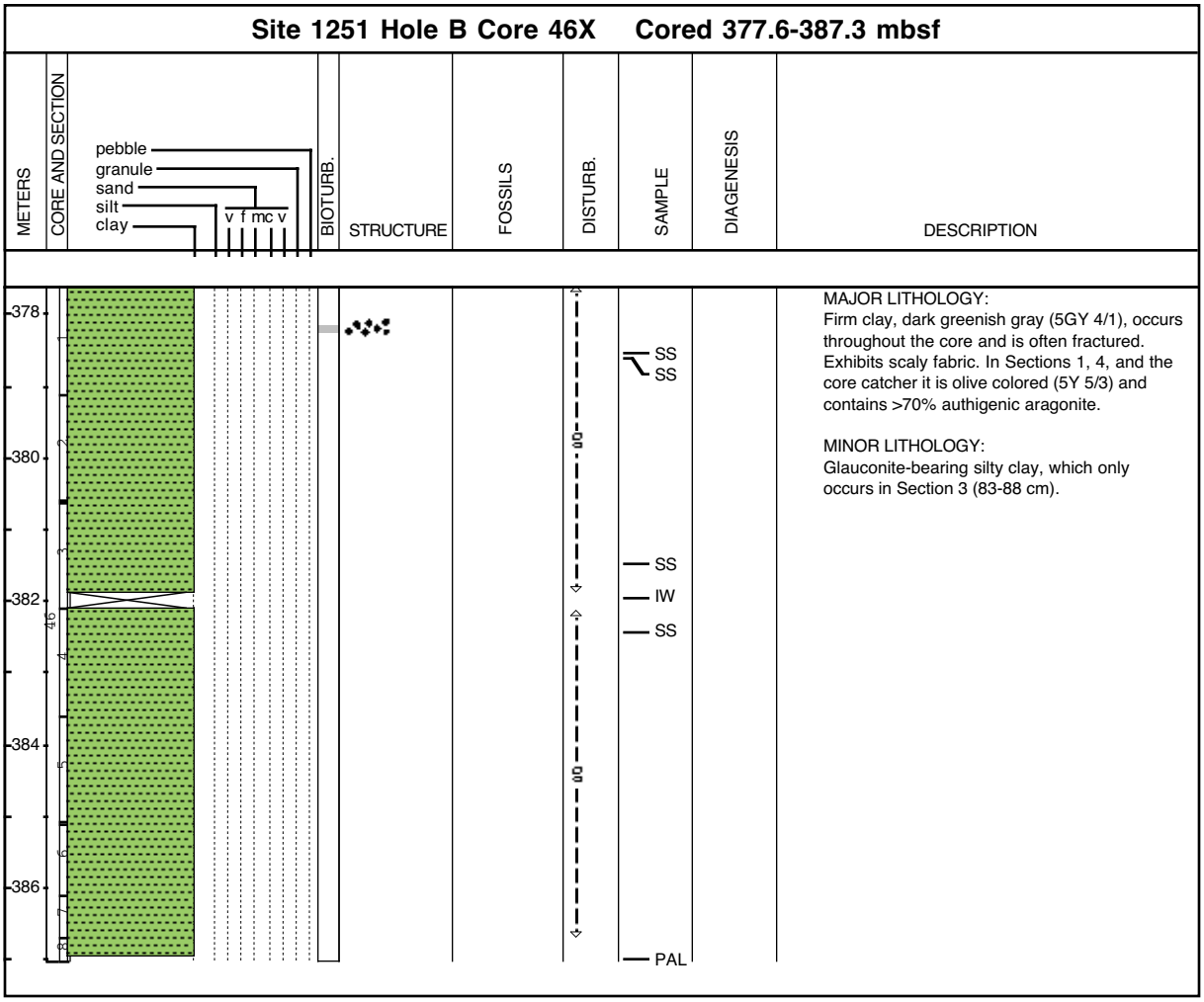
Core Photo


Site 1251 Hole B Core 44X Cored 358.4-368.0 mbsfx
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
360
362
364
366
SS
IW
SS
SS
PAL
MAJOR LITHOLOGY:
Diatom-bearing clay, dark greenish gray (5GY 4/1), with 8% diatoms and rare bioturbation in the bottom part of the core. Bioturbation casts are visible through slight color changes. Sulfides are only rarely seen in the casts.
MINOR LITHOLOGY:
Clast of micritic carbonate, olive gray (5Y 5/2), with 80% authigenic carbonate in Section 6 (30-31 cm).

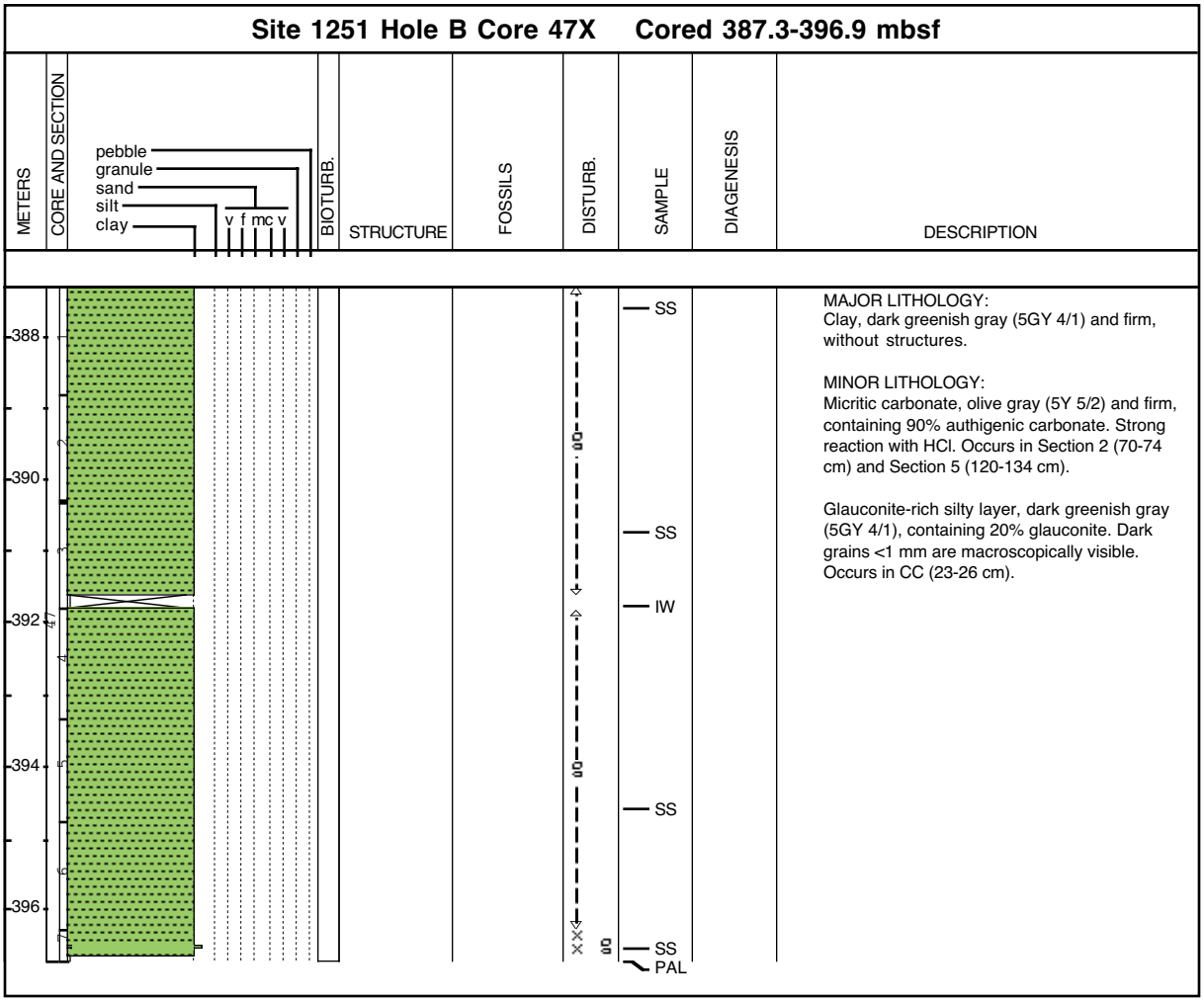
Core Photo


Site 1251 Hole B Core 45X Cored 368.0-377.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
370
372
374
376
45
SS
SS
IW
MBI
PS
IW
PAL
MAJOR LITHOLOGY:
Firm clay, dark greenish gray (5GY 4/1).
MINOR LITHOLOGY:
Firm aragonite-rich silty clay, olive (5Y 5/3).
Occurs at:
Section 1: 135-150 cm
Section 2: 42-49 cm
Section 3: 23-30 cm
Section 4: 8-64 cm
Section 7: 29-37 cm
Scaly fabric is apparent in the fractured biscuits.

Core Photo

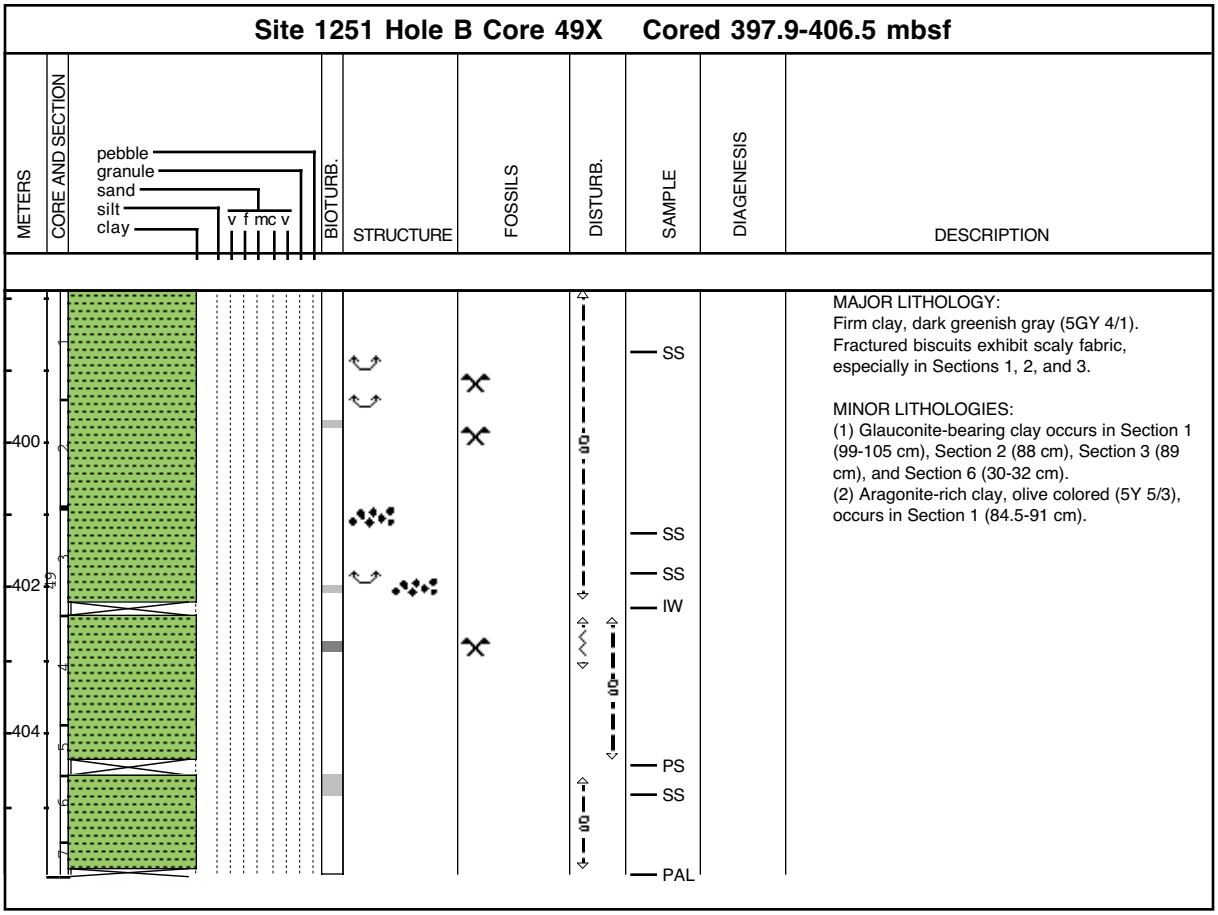

Site 1251 Hole B Core 46X Cored 377.6-387.3 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
378
380
382
384
386
46
SS
SS
SS
IW
SS
PAL
MAJOR LITHOLOGY:
Firm clay, dark greenish gray (5GY 4/1), occurs throughout the core and is often fractured. Exhibits scaly fabric. In Sections 1, 4, and the core catcher it is olive colored (5Y 5/3) and contains >70% authigenic aragonite.
MINOR LITHOLOGY:
Glauconite-bearing silty clay, which only occurs in Section 3 (83-88 cm).

Core Photo

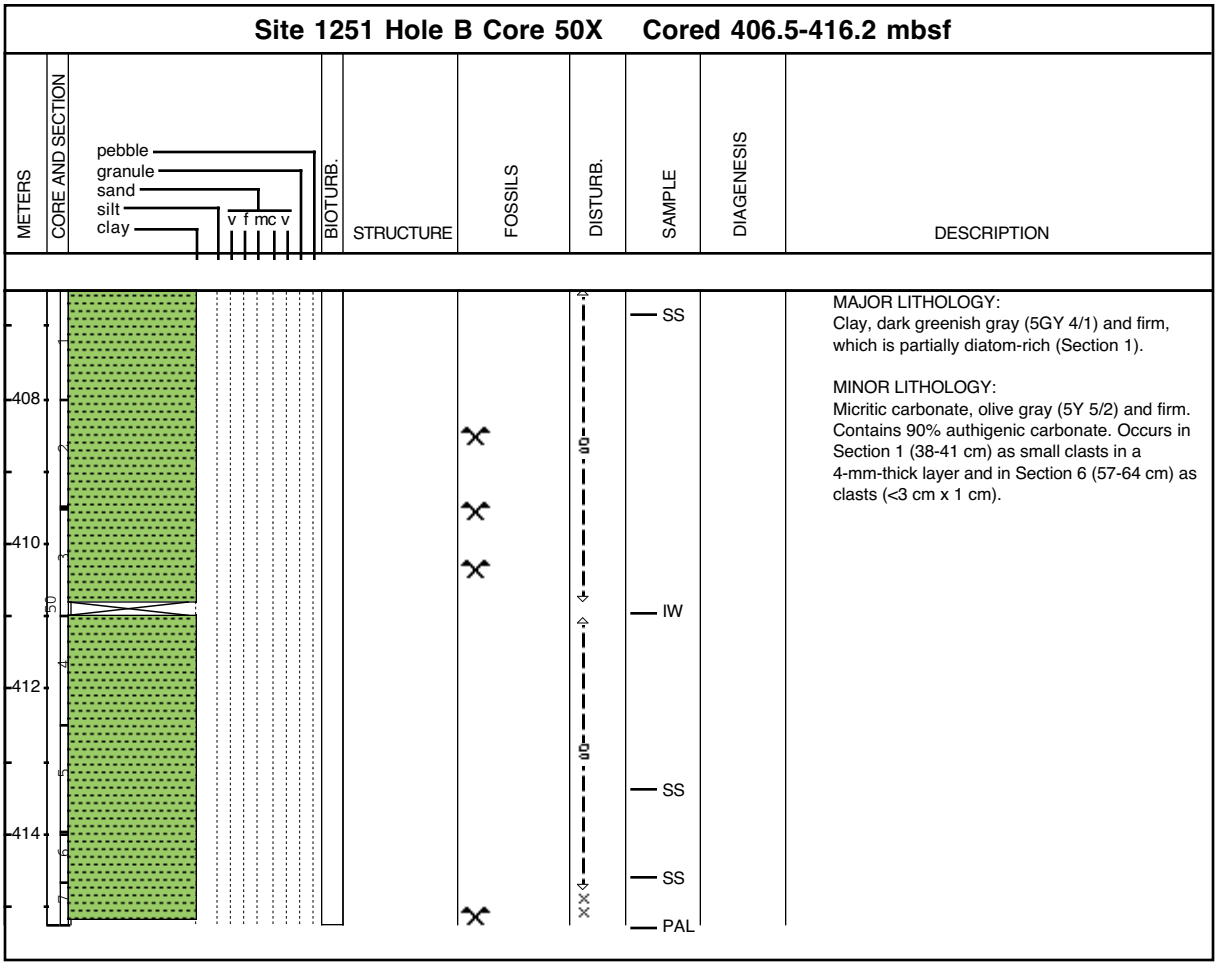


1251B-48E No Recovery

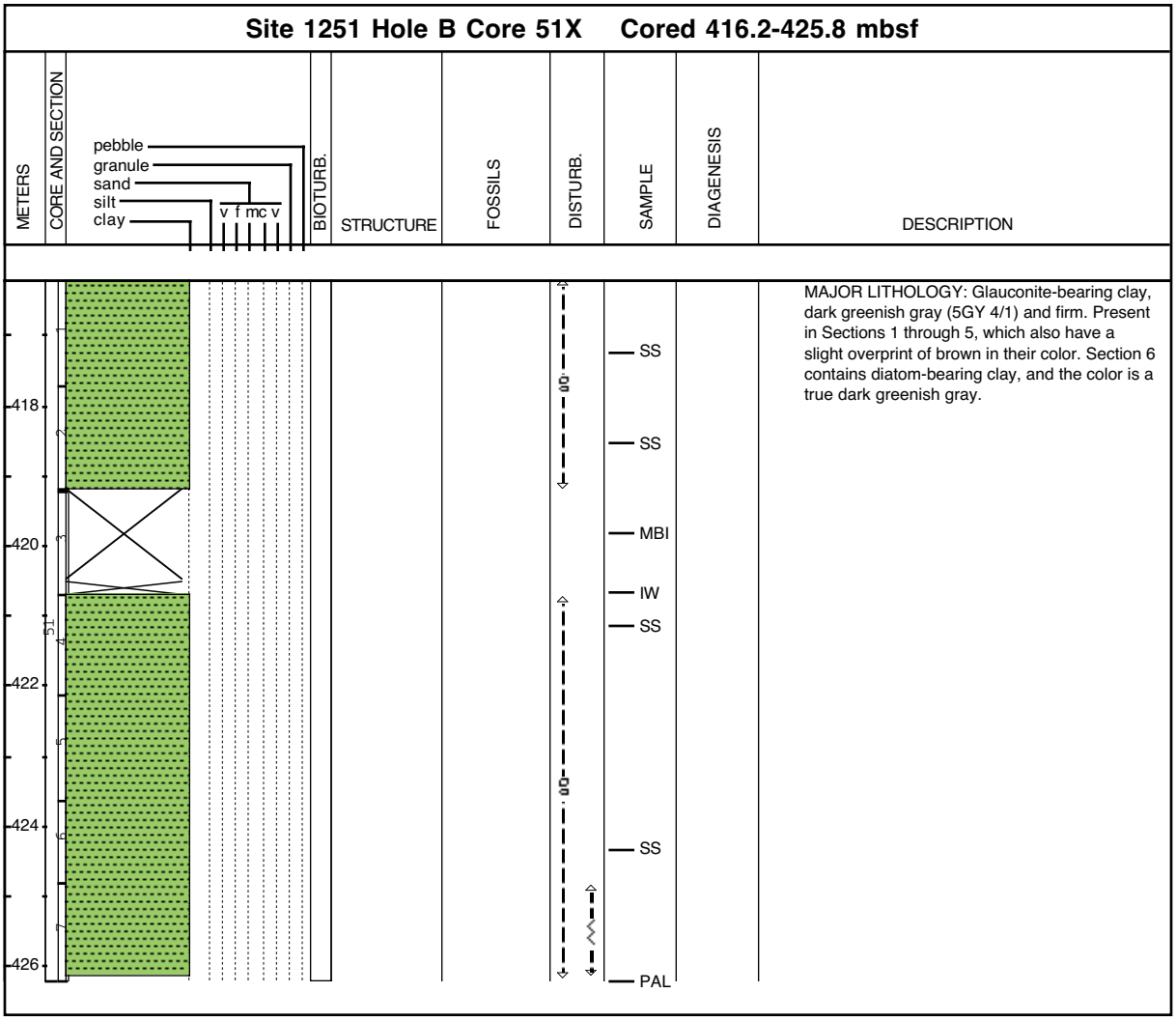
Core Photo


Site 1251 Hole B Core 49X Cored 397.9-406.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
400
402
404
49
1
2
3
4
5
6
7
SS
SS
SS
IW
PS
SS
PAL
MAJOR LITHOLOGY:
Firm clay, dark greenish gray (5GY 4/1). Fractured biscuits exhibit scaly fabric, especially in Sections 1, 2, and 3.
MINOR LITHOLOGIES:
(1) Glauconite-bearing clay occurs in Section 1 (99-105 cm), Section 2 (88 cm), Section 3 (89 cm), and Section 6 (30-32 cm).
(2) Aragonite-rich clay, olive colored (5Y 5/3), occurs in Section 1 (84.5-91 cm).

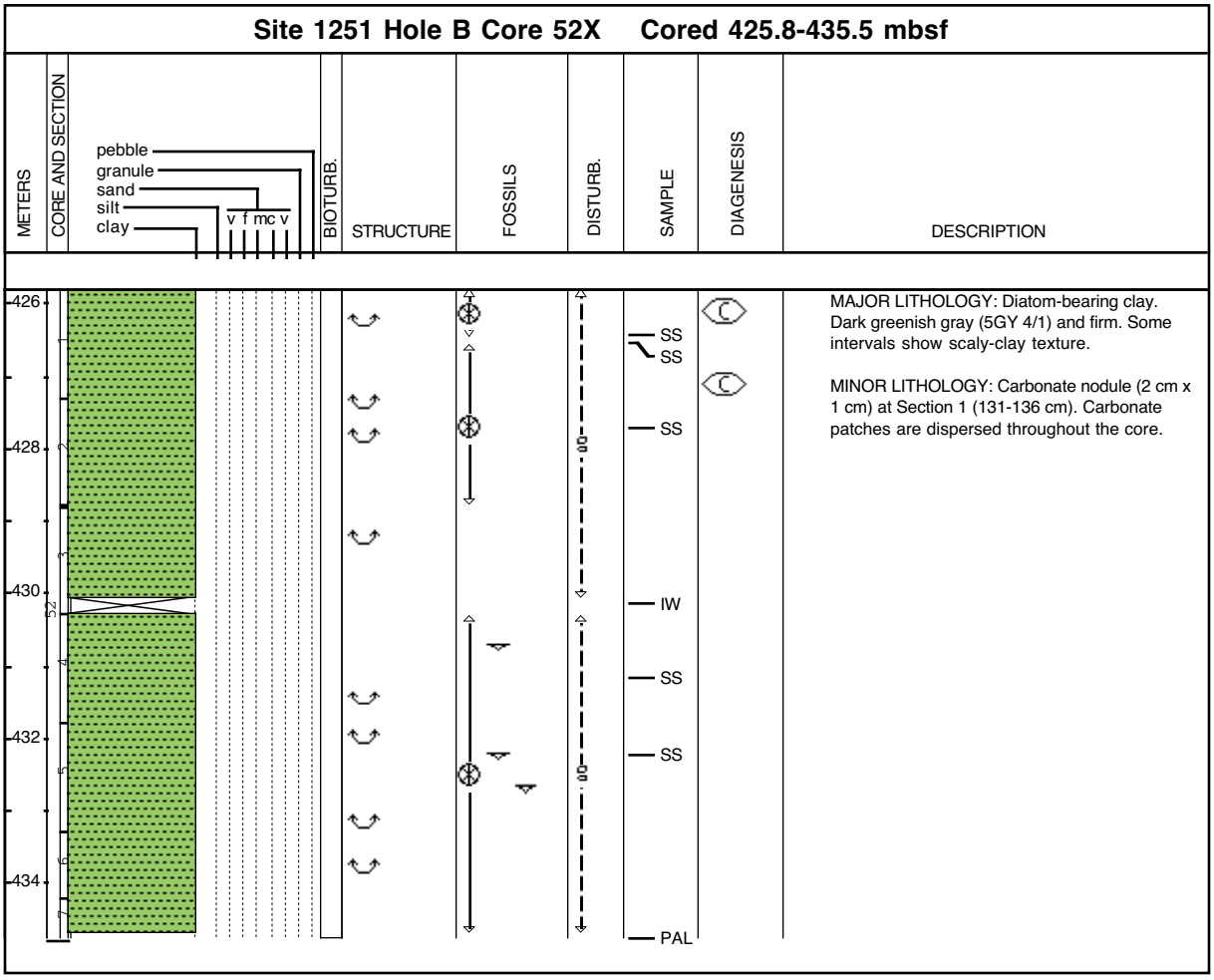
Core Photo


Site 1251 Hole B Core 50X Cored 406.5-416.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
408
410
412
414
50
1
2
3
4
5
6
7
SS
IW
SS
SS
PAL
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1) and firm, which is partially diatom-rich (Section 1).
MINOR LITHOLOGY:
Micritic carbonate, olive gray (5Y 5/2) and firm. Contains 90% authigenic carbonate. Occurs in Section 1 (38-41 cm) as small clasts in a 4-mm-thick layer and in Section 6 (57-64 cm) as clasts (<3 cm x 1 cm).

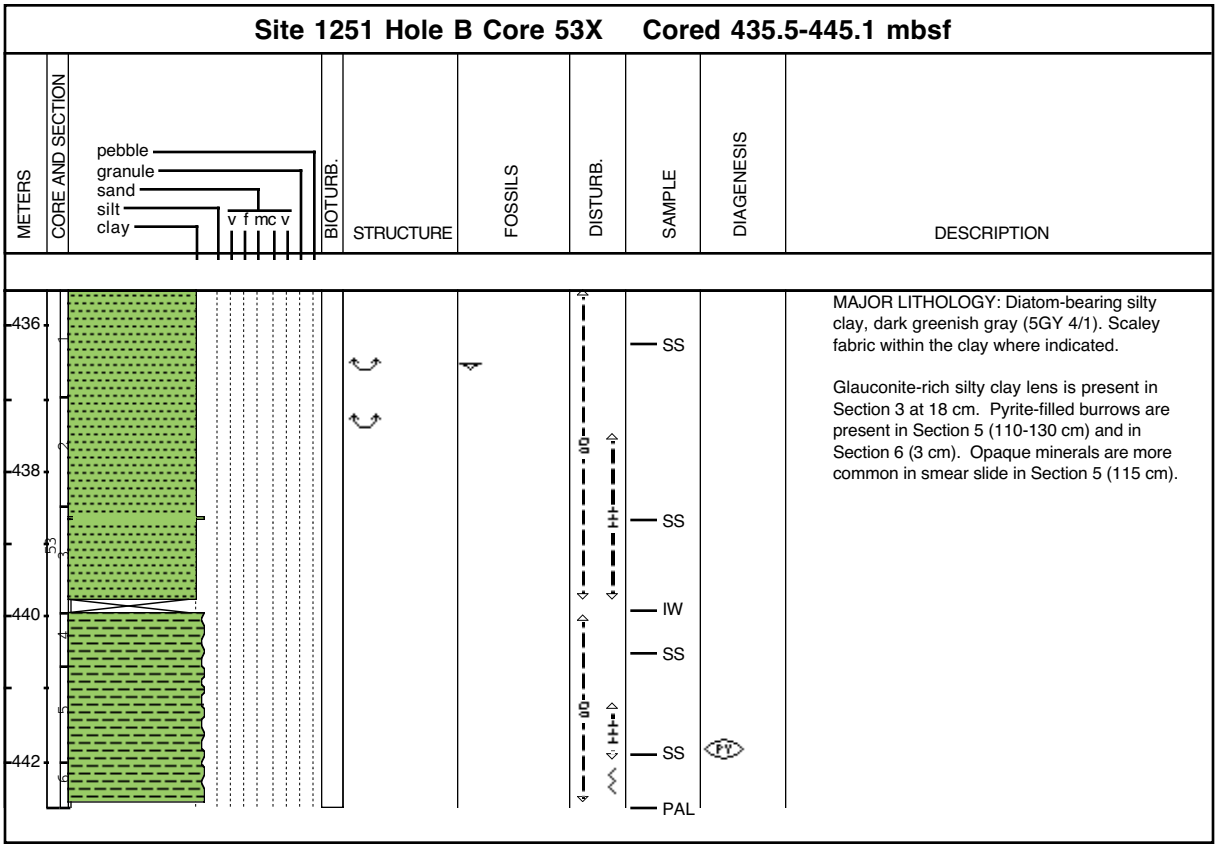
Core Photo


Site 1251 Hole B Core 51X Cored 416.2-425.8 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
418
420
422
424
426
51
1
2
3
4
5
6
7
SS
SS
MBI
IW
SS
SS
PAL
MAJOR LITHOLOGY: Glauconite-bearing clay, dark greenish gray (5GY 4/1) and firm. Present in Sections 1 through 5, which also have a slight overprint of brown in their color. Section 6 contains diatom-bearing clay, and the color is a true dark greenish gray.

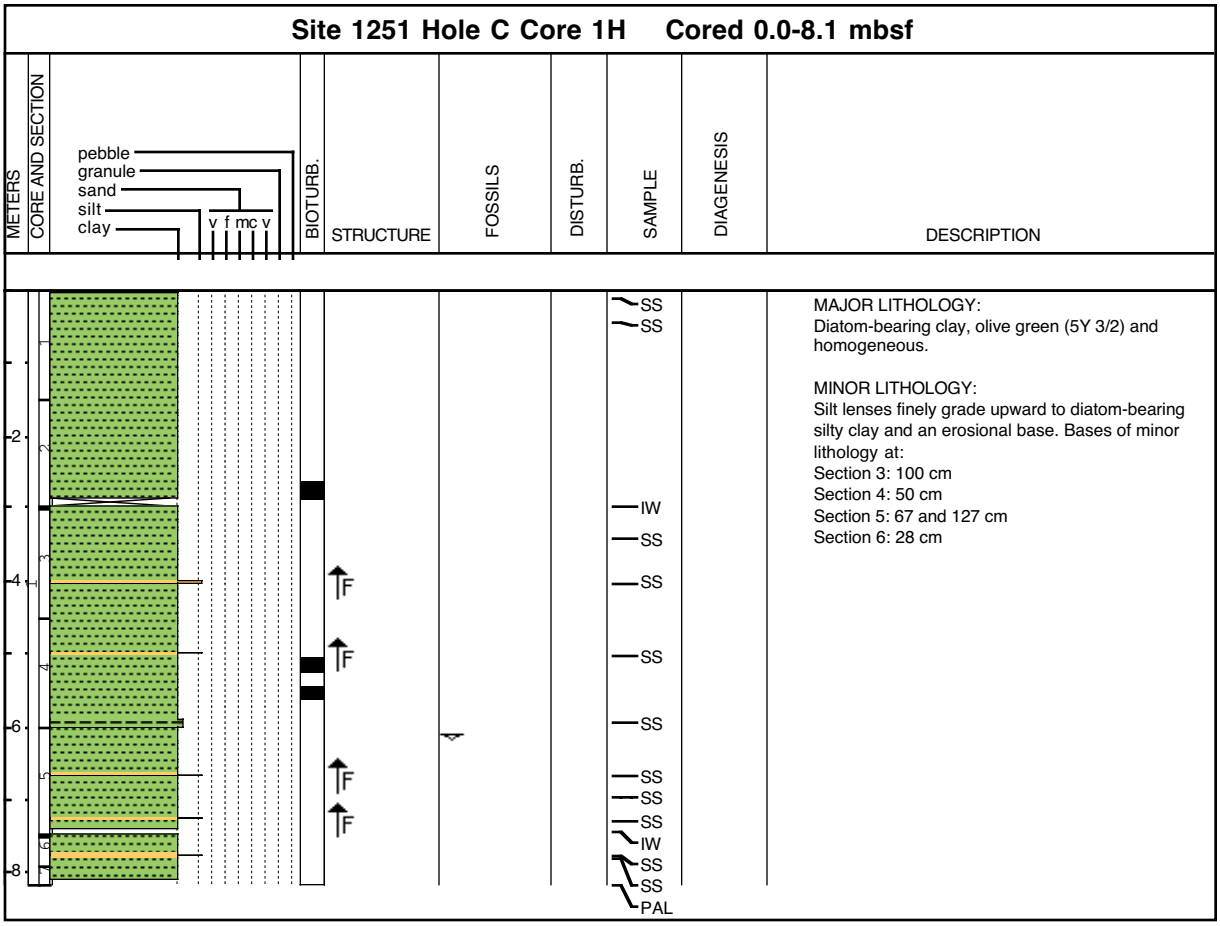
Core Photo


Site 1251 Hole B Core 52X Cored 425.8-435.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
426
428
430
432
434
52
SS
SS
SS
IW
SS
SS
PAL
C
C
MAJOR LITHOLOGY: Diatom-bearing clay. Dark greenish gray (5GY 4/1) and firm. Some intervals show scaly-clay texture.
MINOR LITHOLOGY: Carbonate nodule (2 cm x 1 cm) at Section 1 (131-136 cm). Carbonate patches are dispersed throughout the core.

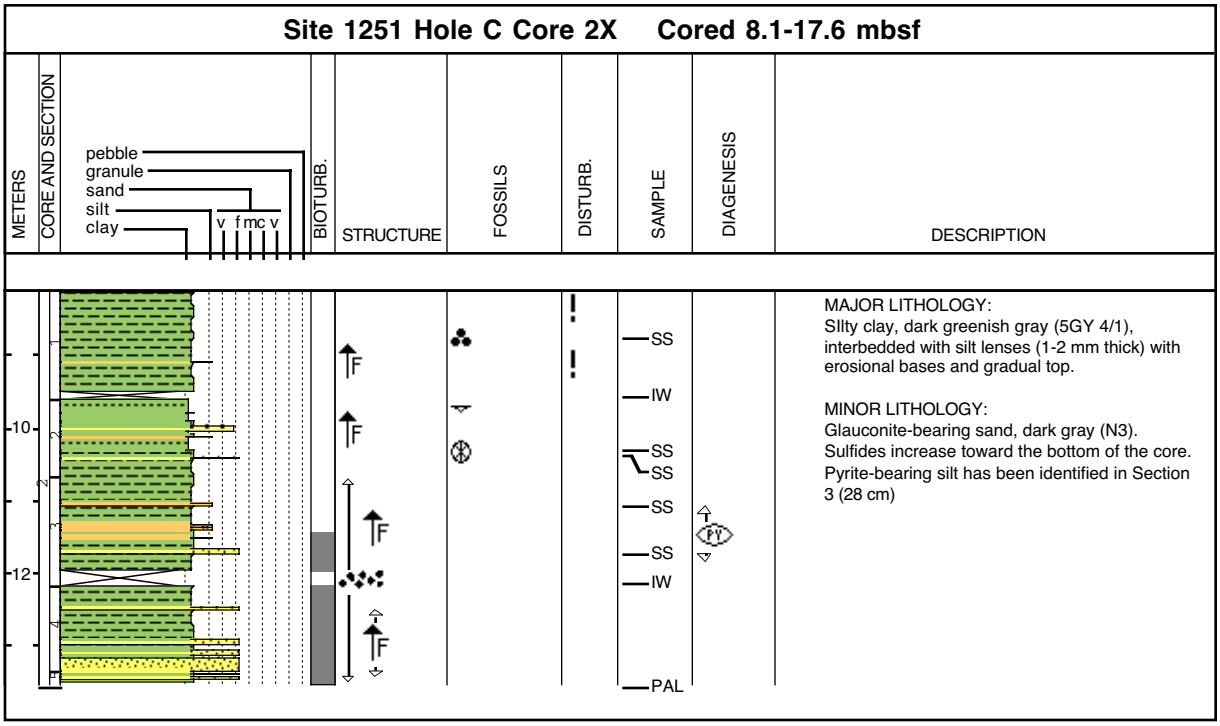
Core Photo


Site 1251 Hole B Core 53X Cored 435.5-445.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
436
438
440
442
53
SS
SS
IW
SS
SS
PAL
PY
MAJOR LITHOLOGY: Diatom-bearing silty clay, dark greenish gray (5GY 4/1). Scaley fabric within the clay where indicated.
Glauconite-rich silty clay lens is present in Section 3 at 18 cm. Pyrite-filled burrows are present in Section 5 (110-130 cm) and in Section 6 (3 cm). Opaque minerals are more common in smear slide in Section 5 (115 cm).

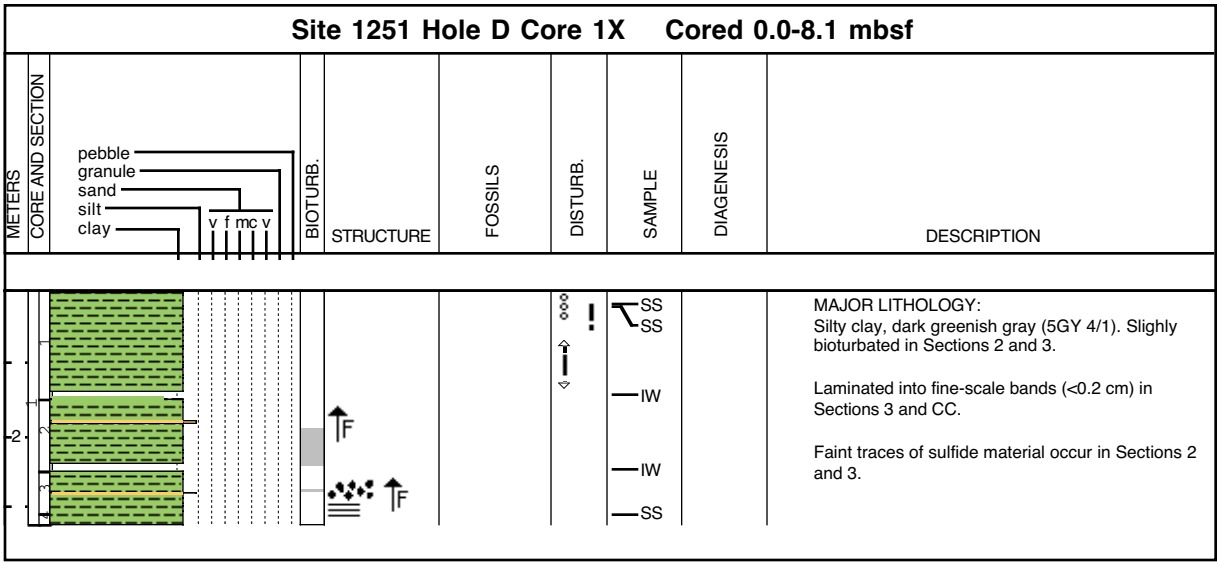
Core Photo


Site 1251 Hole C Core 1H Cored 0.0-8.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
SS
SS
IW
SS
SS
SS
SS
SS
SS
IW
SS
SS
PAL
F
F
F
F
MAJOR LITHOLOGY:
Diatom-bearing clay, olive green (5Y 3/2) and homogeneous.
MINOR LITHOLOGY:
Silt lenses finely grade upward to diatom-bearing silty clay and an erosional base. Bases of minor lithology at:
Section 3: 100 cm
Section 4: 50 cm
Section 5: 67 and 127 cm
Section 6: 28 cm

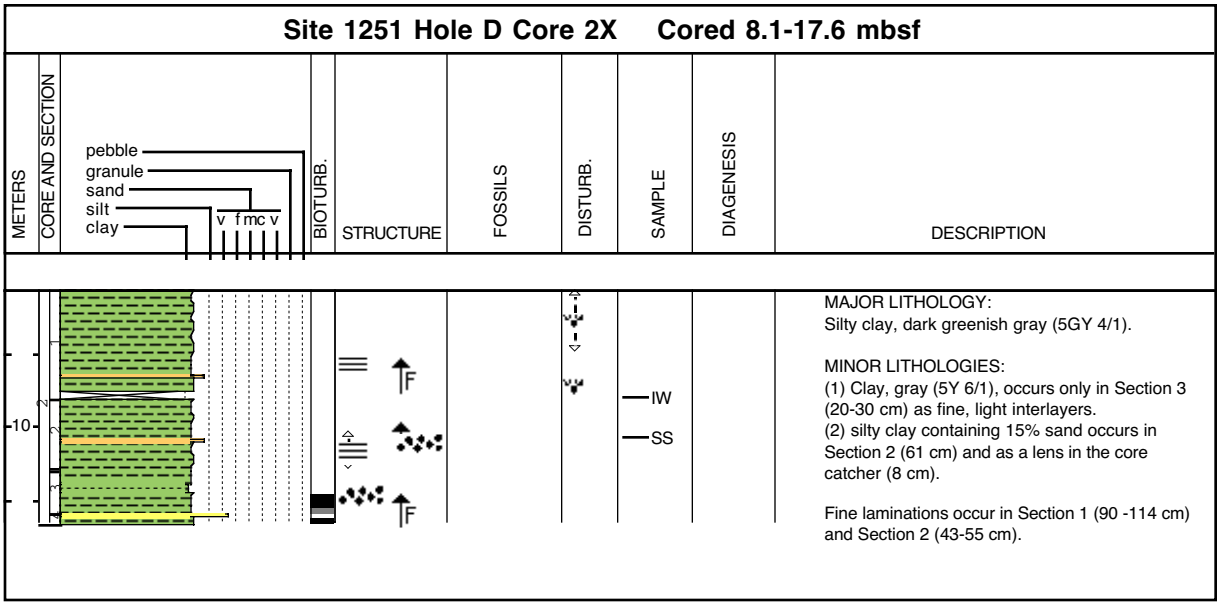
Core Photo


Site 1251 Hole C Core 2X Cored 8.1-17.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
10
12
SS
IW
SS
SS
SS
SS
IW
PAL
PY
MAJOR LITHOLOGY:
SIlty clay, dark greenish gray (5GY 4/1), interbedded with silt lenses (1-2 mm thick) with erosional bases and gradual top.
MINOR LITHOLOGY:
Glauconite-bearing sand, dark gray (N3).
Sulfides increase toward the bottom of the core.
Pyrite-bearing silt has been identified in Section 3 (28 cm)

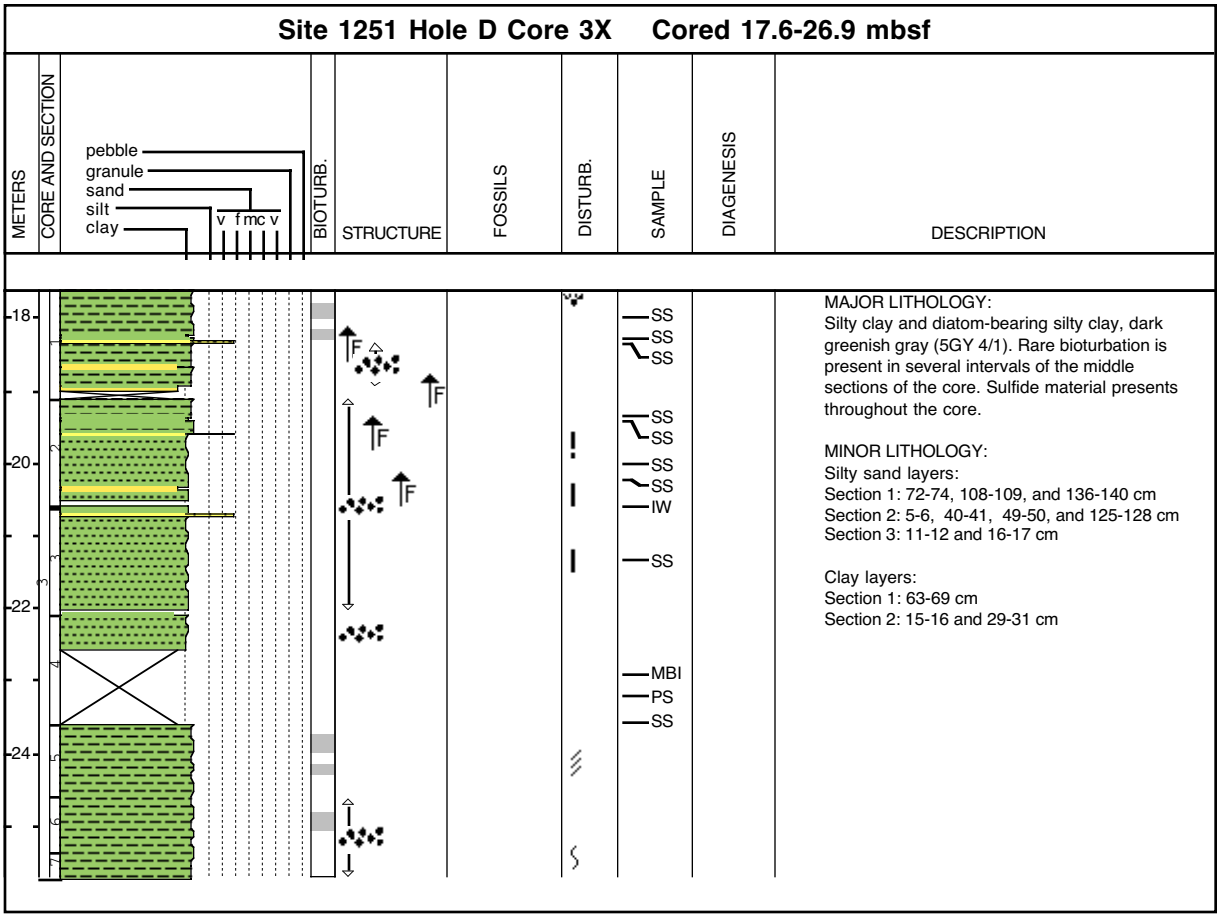
Core Photo


Site 1251 Hole D Core 1X Cored 0.0-8.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
SS
SS
IW
IW
SS
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1). Slighly bioturbated in Sections 2 and 3.
Laminated into fine-scale bands (<0.2 cm) in Sections 3 and CC.
Faint traces of sulfide material occur in Sections 2 and 3.

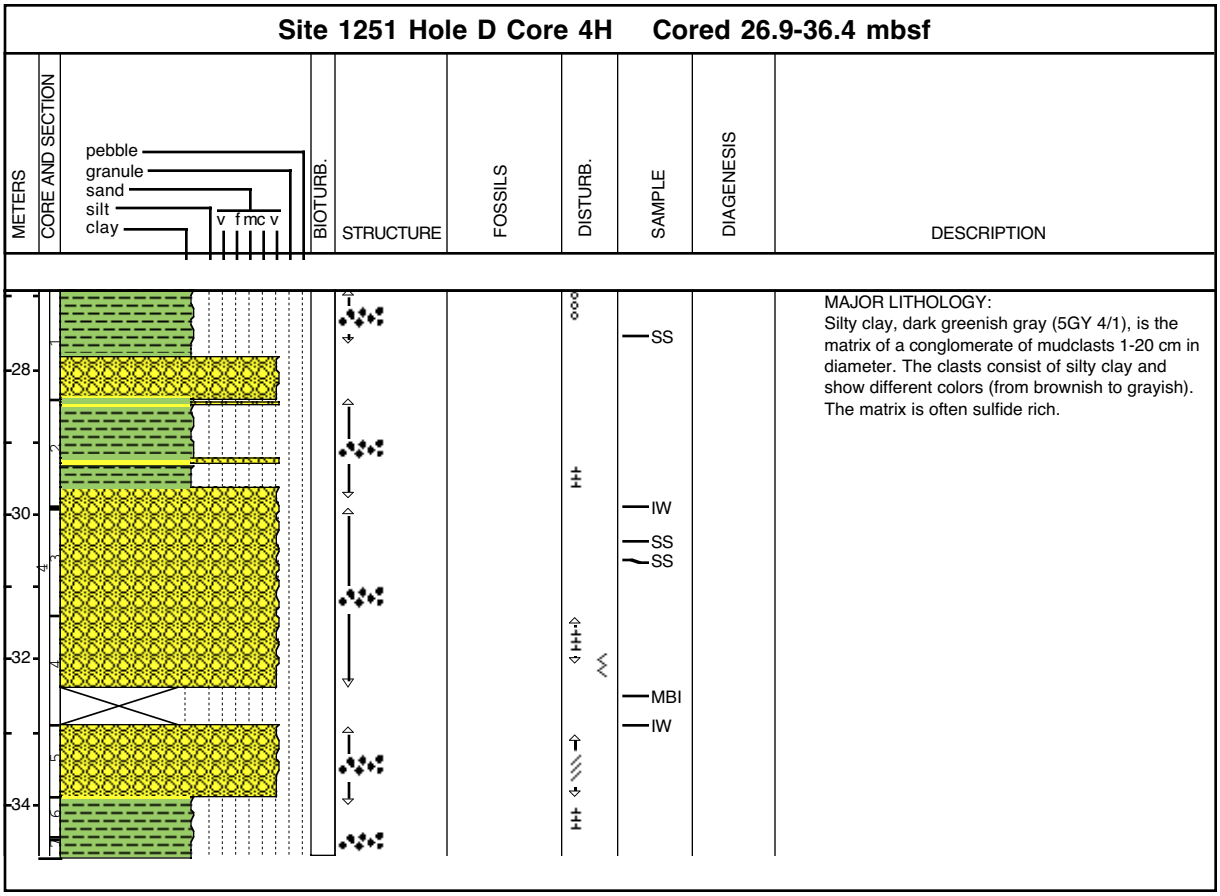
Core Photo


Site 1251 Hole D Core 2X Cored 8.1-17.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
10
IW
SS
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1).
MINOR LITHOLOGIES:
(1) Clay, gray (5Y 6/1), occurs only in Section 3 (20-30 cm) as fine, light interlayers.
(2) silty clay containing 15% sand occurs in Section 2 (61 cm) and as a lens in the core catcher (8 cm).
Fine laminations occur in Section 1 (90 -114 cm) and Section 2 (43-55 cm).

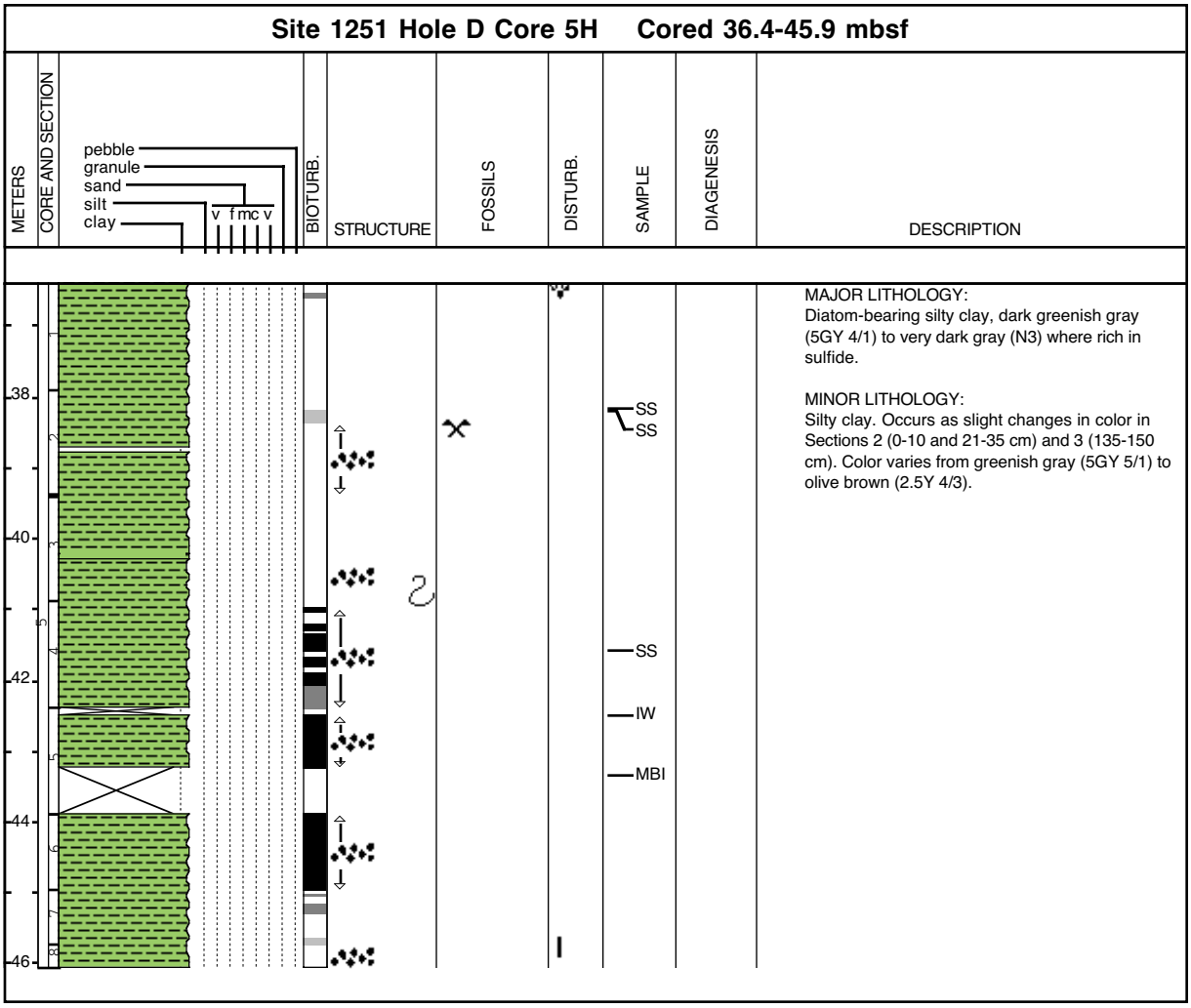
Core Photo


Site 1251 Hole D Core 3X Cored 17.6-26.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
18
20
22
24
SS
SS
SS
SS
SS
SS
SS
IW
SS
MBI
PS
SS
MAJOR LITHOLOGY:
Silty clay and diatom-bearing silty clay, dark greenish gray (5GY 4/1). Rare bioturbation is present in several intervals of the middle sections of the core. Sulfide material presents throughout the core.
MINOR LITHOLOGY:
Silty sand layers:
Section 1: 72-74, 108-109, and 136-140 cm
Section 2: 5-6, 40-41, 49-50, and 125-128 cm
Section 3: 11-12 and 16-17 cm
Clay layers:
Section 1: 63-69 cm
Section 2: 15-16 and 29-31 cm

Core Photo

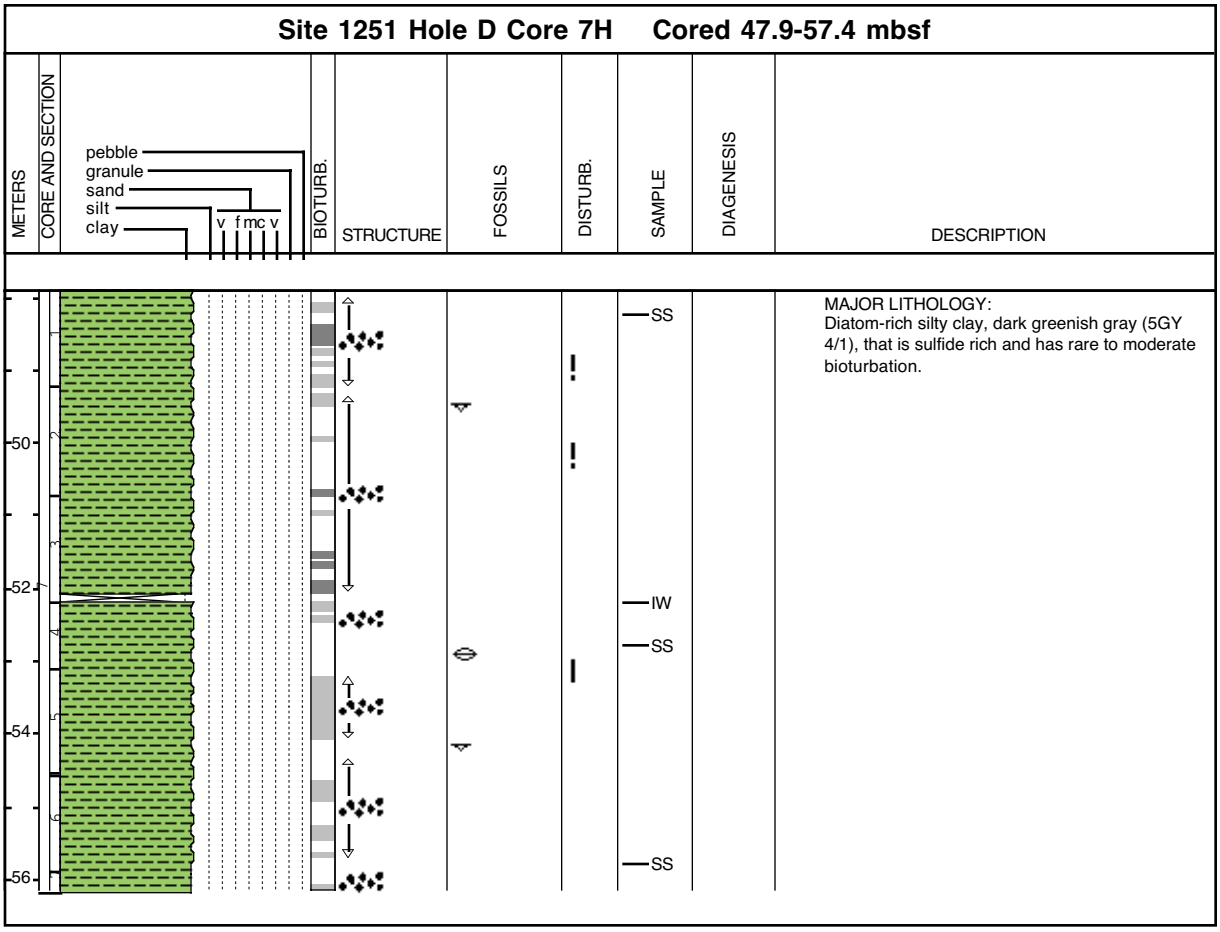

Site 1251 Hole D Core 4H Cored 26.9-36.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
28
30
32
34
SS
IW
SS
SS
MBI
IW
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1), is the matrix of a conglomerate of mudclasts 1-20 cm in diameter. The clasts consist of silty clay and show different colors (from brownish to grayish). The matrix is often sulfide rich.

Core Photo

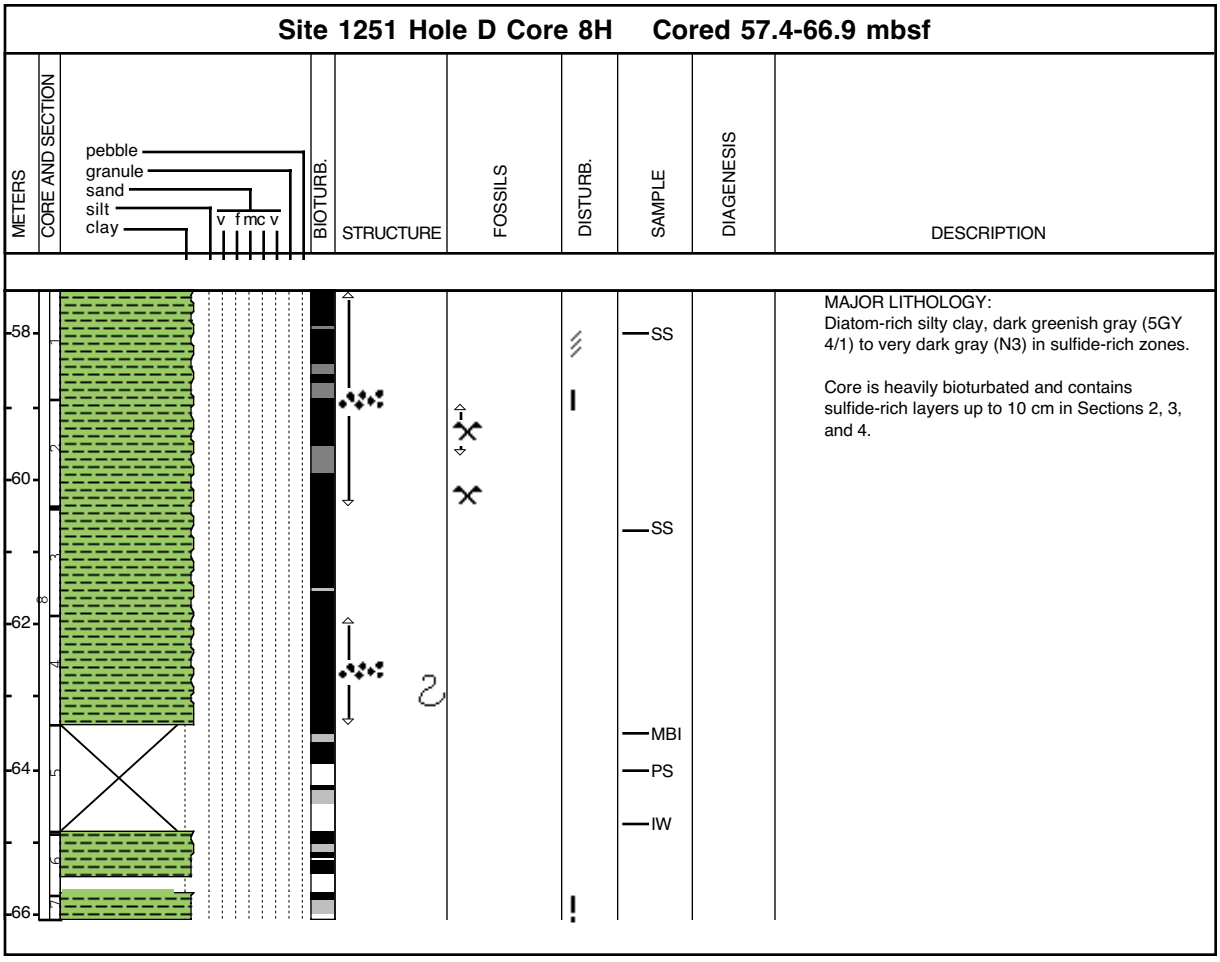


1251D-6P Fugro Pressure Core not described.

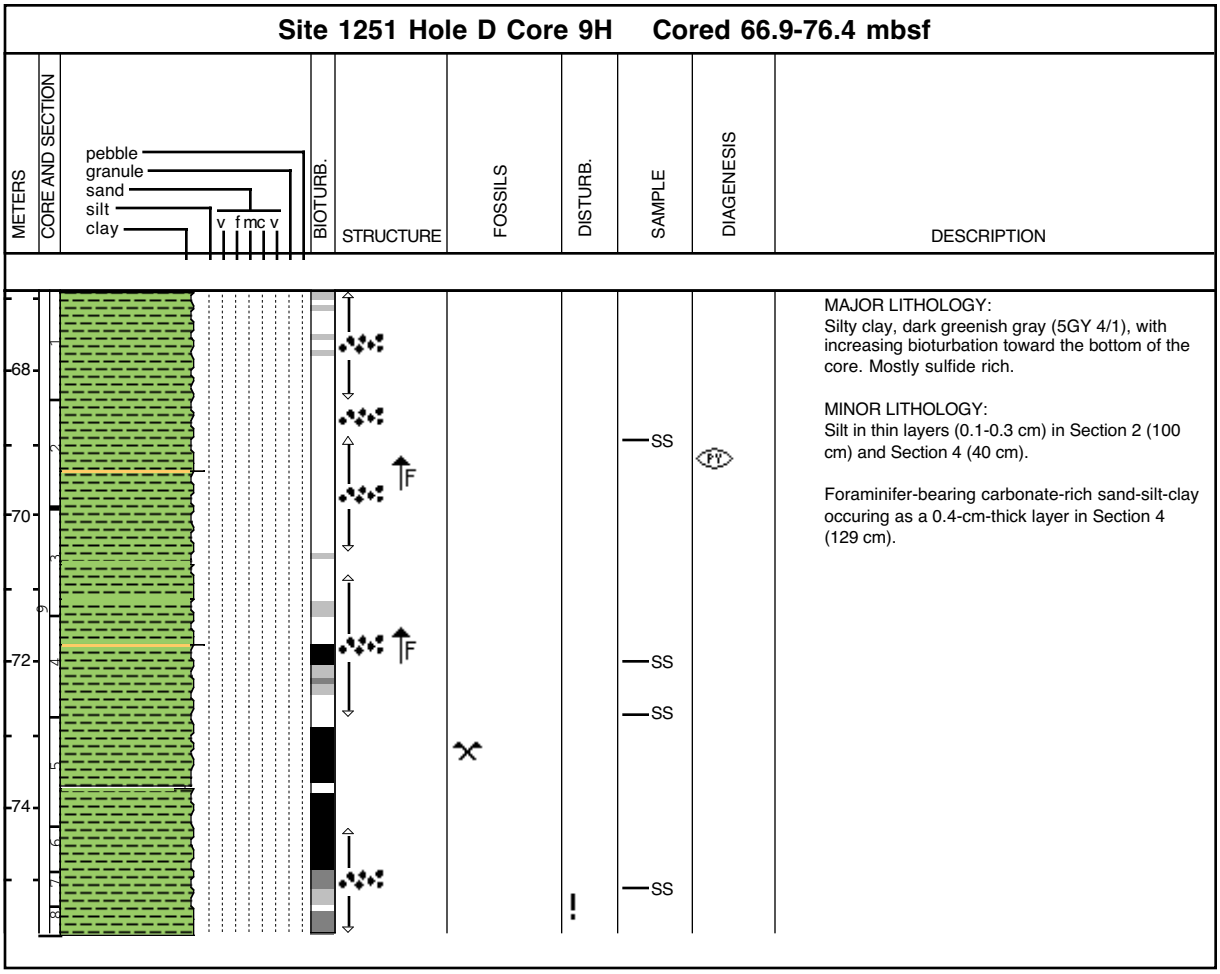
Core Photo


Site 1251 Hole D Core 7H Cored 47.9-57.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
50
52
54
56
SS
IW
SS
SS
MAJOR LITHOLOGY:
Diatom-rich silty clay, dark greenish gray (5GY 4/1), that is sulfide rich and has rare to moderate bioturbation.

Core Photo

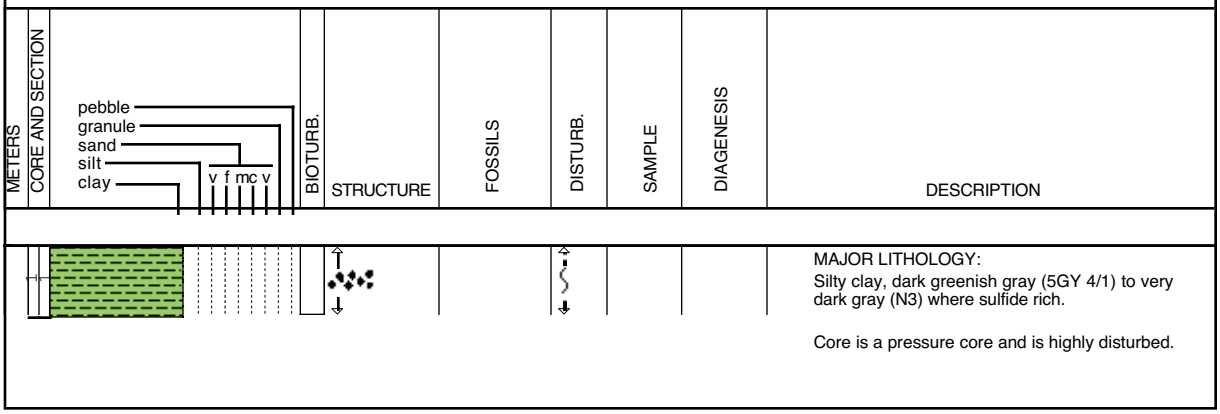

Site 1251 Hole D Core 8H Cored 57.4-66.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
58
60
62
64
66
SS
SS
MBI
PS
IW
MAJOR LITHOLOGY:
Diatom-rich silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3) in sulfide-rich zones.
Core is heavily bioturbated and contains sulfide-rich layers up to 10 cm in Sections 2, 3, and 4.

Core Photo

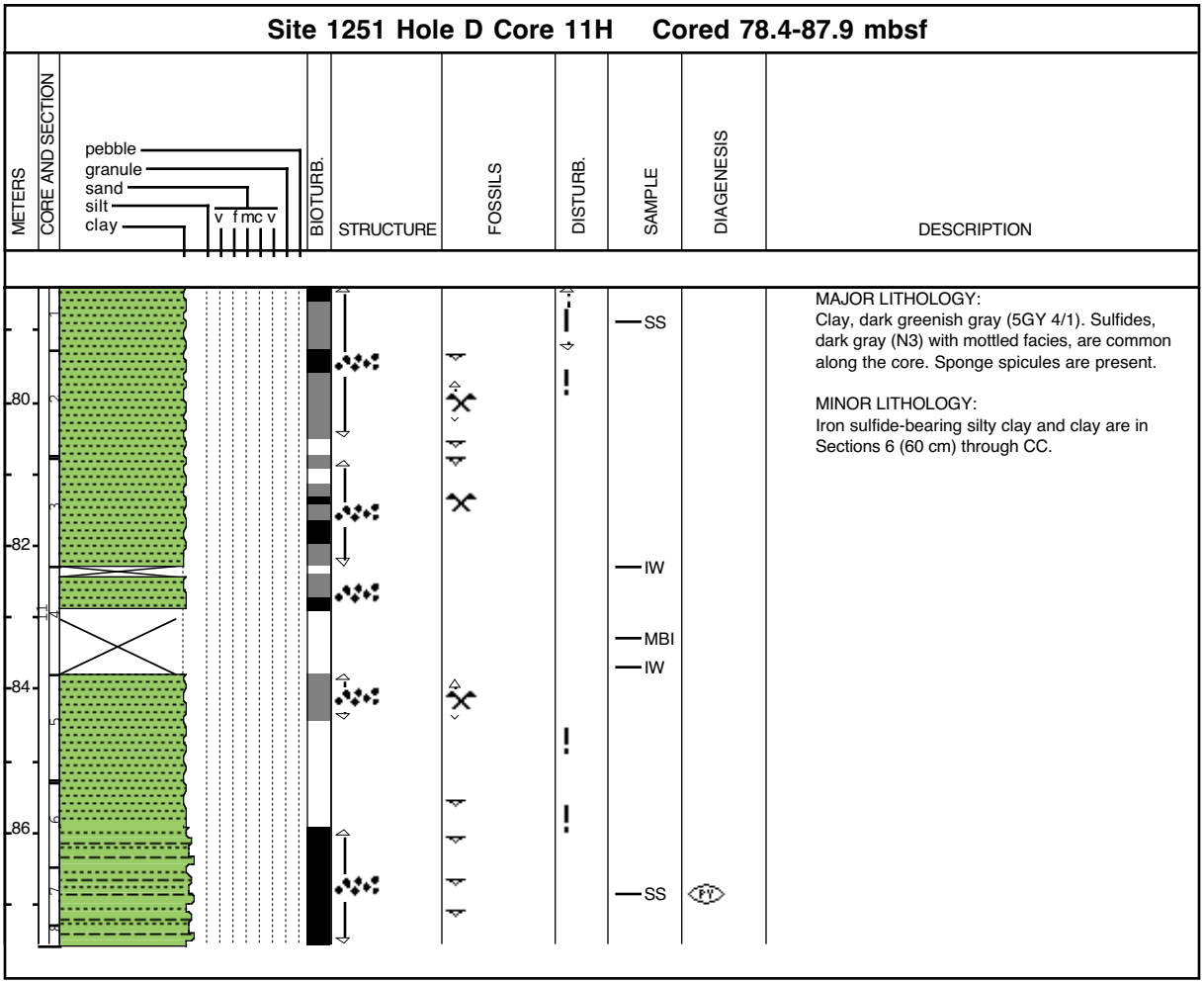

Site 1251 Hole D Core 9H Cored 66.9-76.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
68
70
72
74
SS
SS
SS
F
F
PY
!
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1), with increasing bioturbation toward the bottom of the core. Mostly sulfide rich.
MINOR LITHOLOGY:
Silt in thin layers (0.1-0.3 cm) in Section 2 (100 cm) and Section 4 (40 cm).
Foraminifer-bearing carbonate-rich sand-silt-clay occuring as a 0.4-cm-thick layer in Section 4 (129 cm).

Core Photo

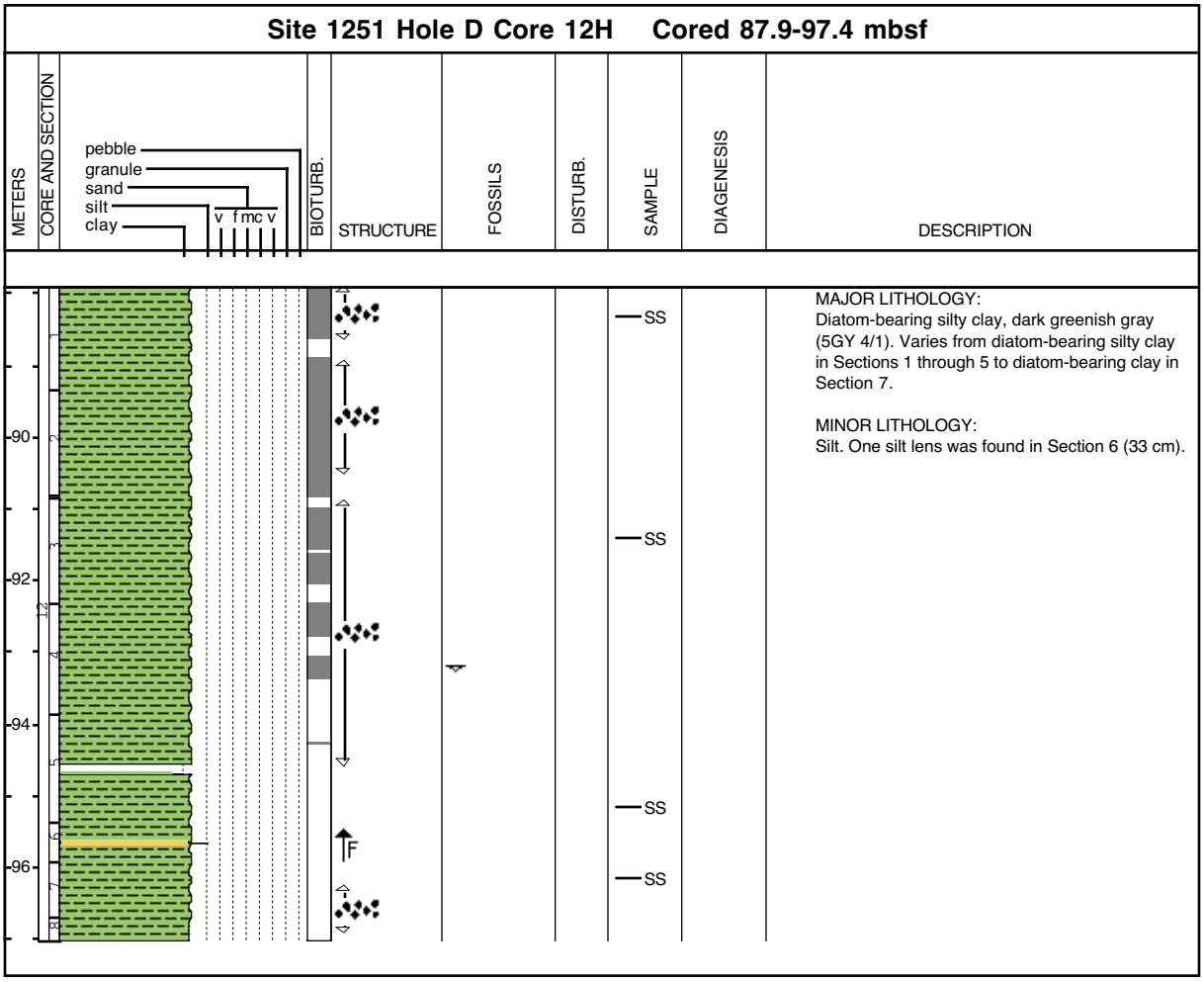
Site 1251 Hole D Core 10P Cored 76.4-77.4 mbsf



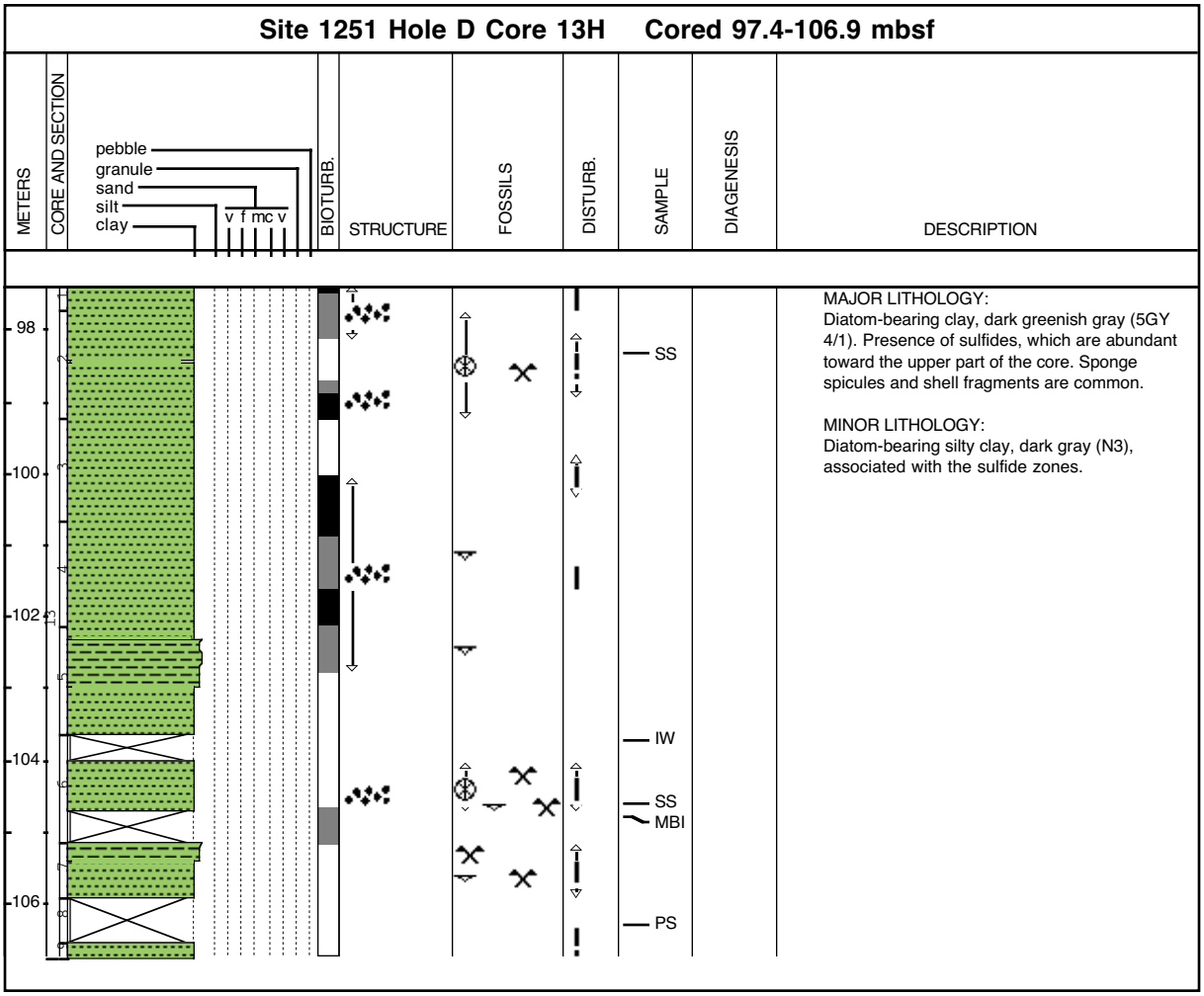
Core Photo


Site 1251 Hole D Core 11H Cored 78.4-87.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
80
82
84
86
SS
IW
MBI
IW
SS
PY
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1). Sulfides, dark gray (N3) with mottled facies, are common along the core. Sponge spicules are present.
MINOR LITHOLOGY:
Iron sulfide-bearing silty clay and clay are in Sections 6 (60 cm) through CC.

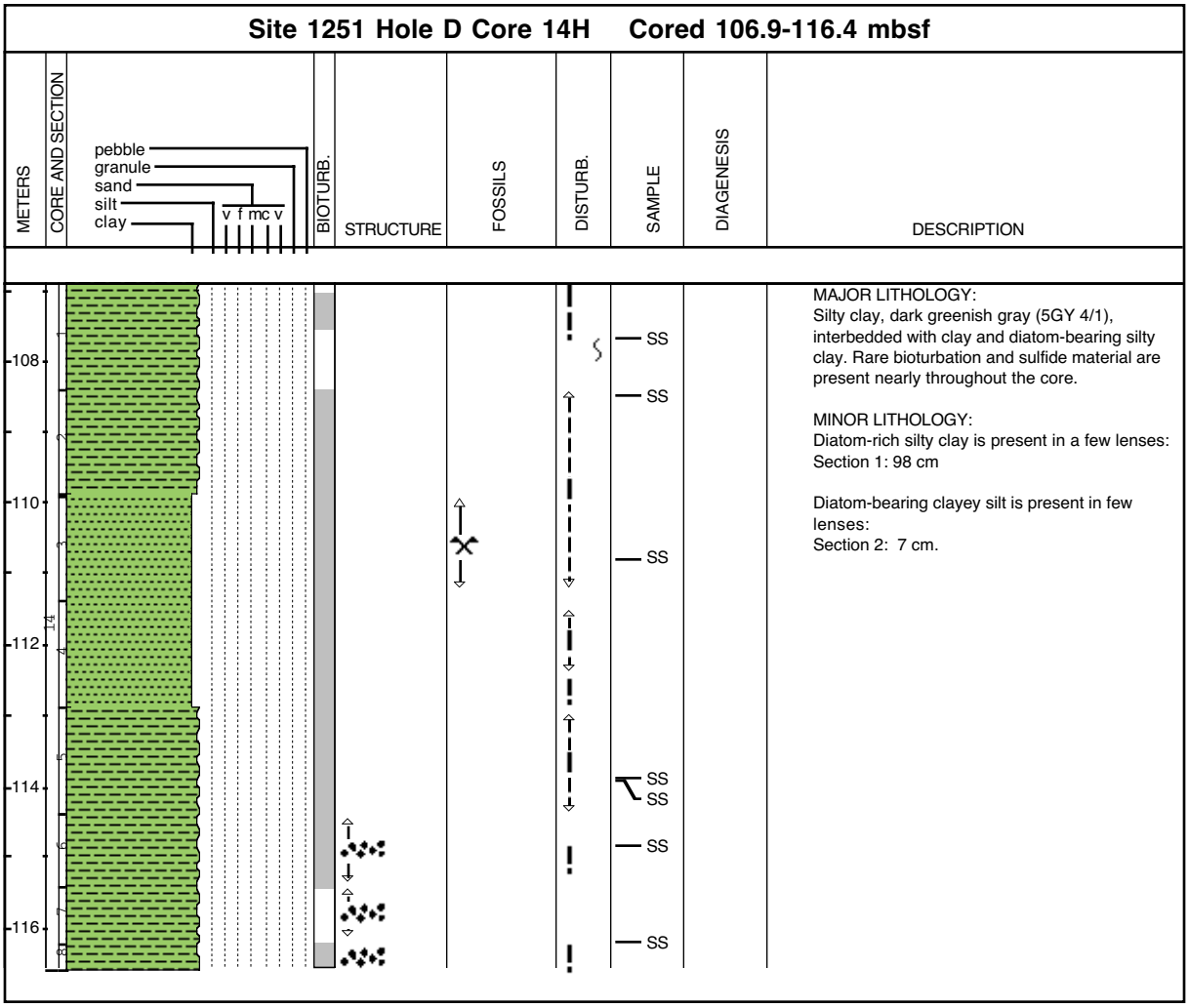
Core Photo


Site 1251 Hole D Core 12H Cored 87.9-97.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f m c v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
-90
-92
-94
-96
12
SS
SS
SS
SS
F
MAJOR LITHOLOGY:
Diatom-bearing silty clay, dark greenish gray (5GY 4/1). Varies from diatom-bearing silty clay in Sections 1 through 5 to diatom-bearing clay in Section 7.
MINOR LITHOLOGY:
Silt. One silt lens was found in Section 6 (33 cm).

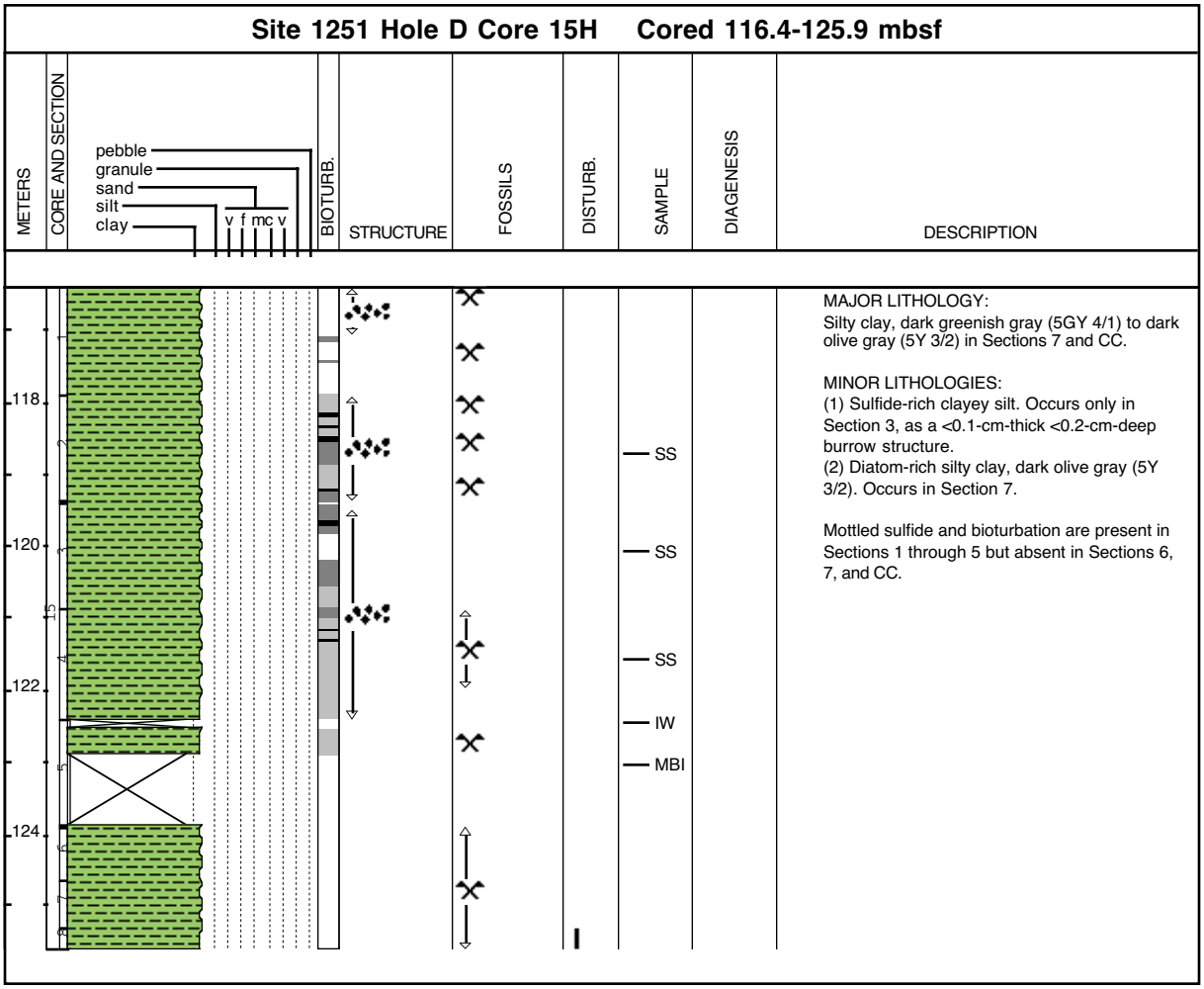
Core Photo


Site 1251 Hole D Core 13H Cored 97.4-106.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
98
100
102
104
106
SS
IW
SS
MBI
PS
MAJOR LITHOLOGY:
Diatom-bearing clay, dark greenish gray (5GY 4/1). Presence of sulfides, which are abundant toward the upper part of the core. Sponge spicules and shell fragments are common.
MINOR LITHOLOGY:
Diatom-bearing silty clay, dark gray (N3), associated with the sulfide zones.

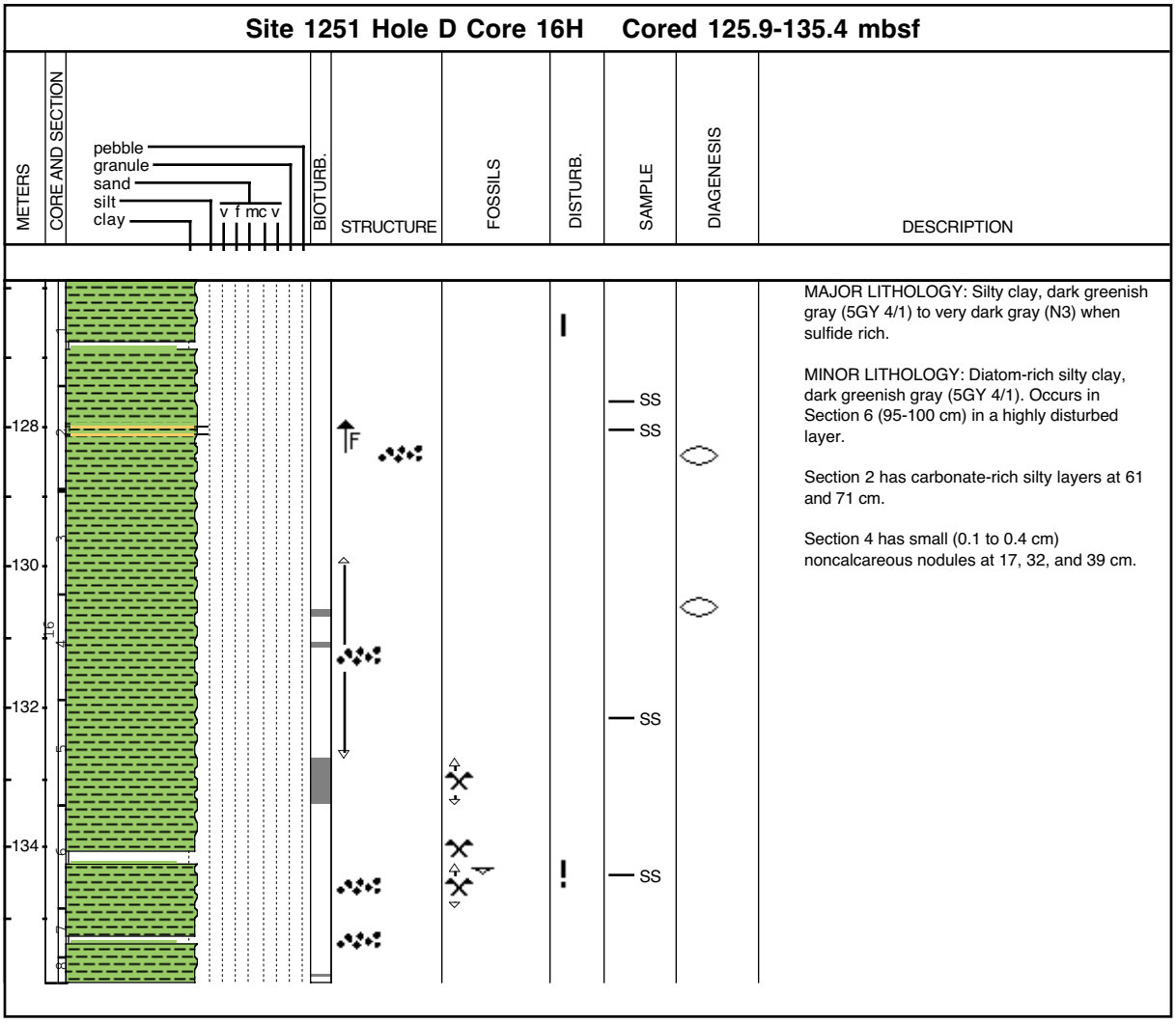
Core Photo


Site 1251 Hole D Core 14H Cored 106.9-116.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
108
110
112
114
116
14
1
2
3
4
5
6
7
CC
SS
SS
SS
SS
SS
SS
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1), interbedded with clay and diatom-bearing silty clay. Rare bioturbation and sulfide material are present nearly throughout the core.
MINOR LITHOLOGY:
Diatom-rich silty clay is present in a few lenses:
Section 1: 98 cm
Diatom-bearing clayey silt is present in few lenses:
Section 2: 7 cm.

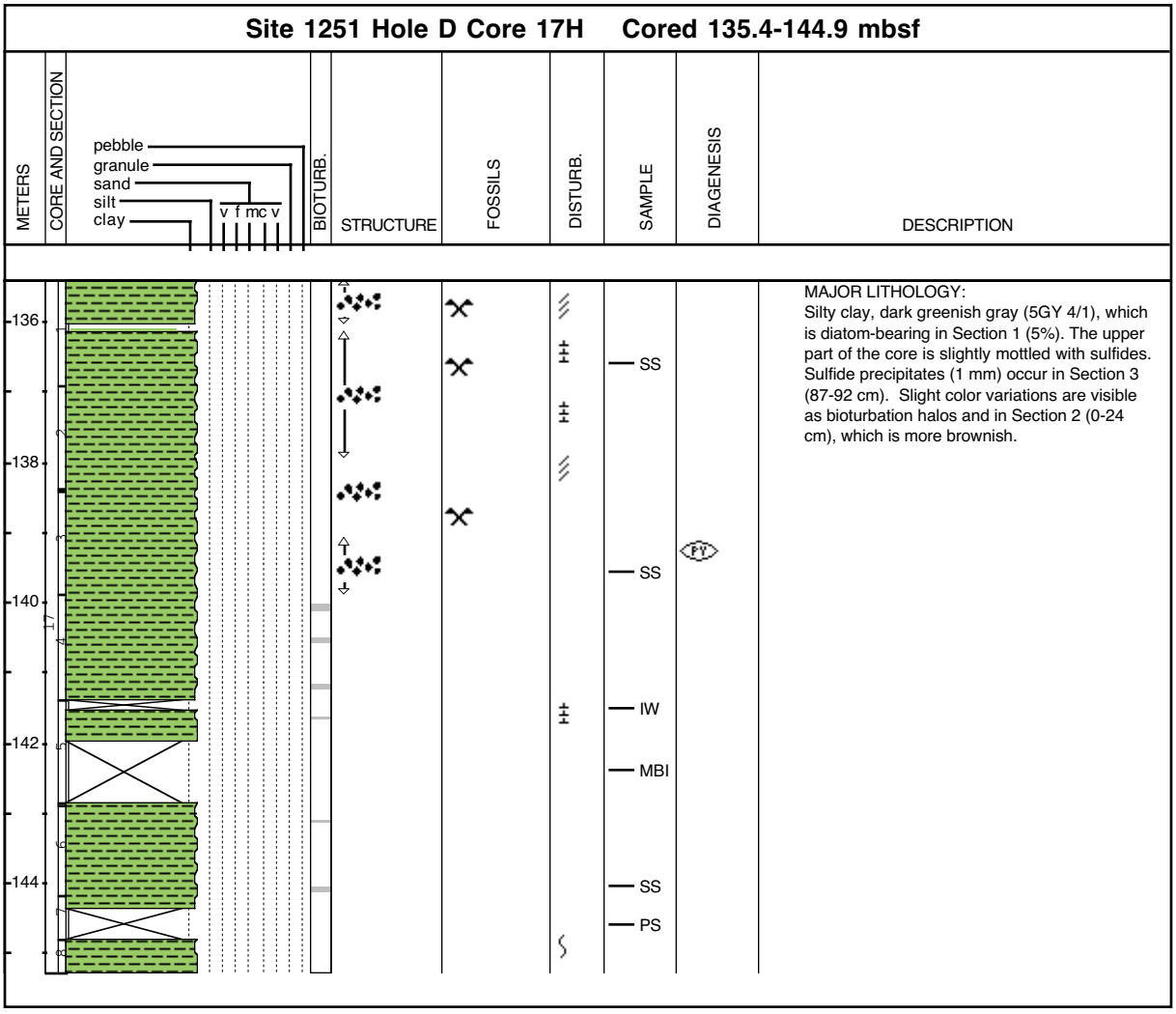
Core Photo


Site 1251 Hole D Core 15H Cored 116.4-125.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
118
120
122
124
SS
SS
SS
IW
MBI
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) to dark olive gray (5Y 3/2) in Sections 7 and CC.
MINOR LITHOLOGIES:
(1) Sulfide-rich clayey silt. Occurs only in Section 3, as a <0.1-cm-thick <0.2-cm-deep burrow structure.
(2) Diatom-rich silty clay, dark olive gray (5Y 3/2). Occurs in Section 7.
Mottled sulfide and bioturbation are present in Sections 1 through 5 but absent in Sections 6, 7, and CC.

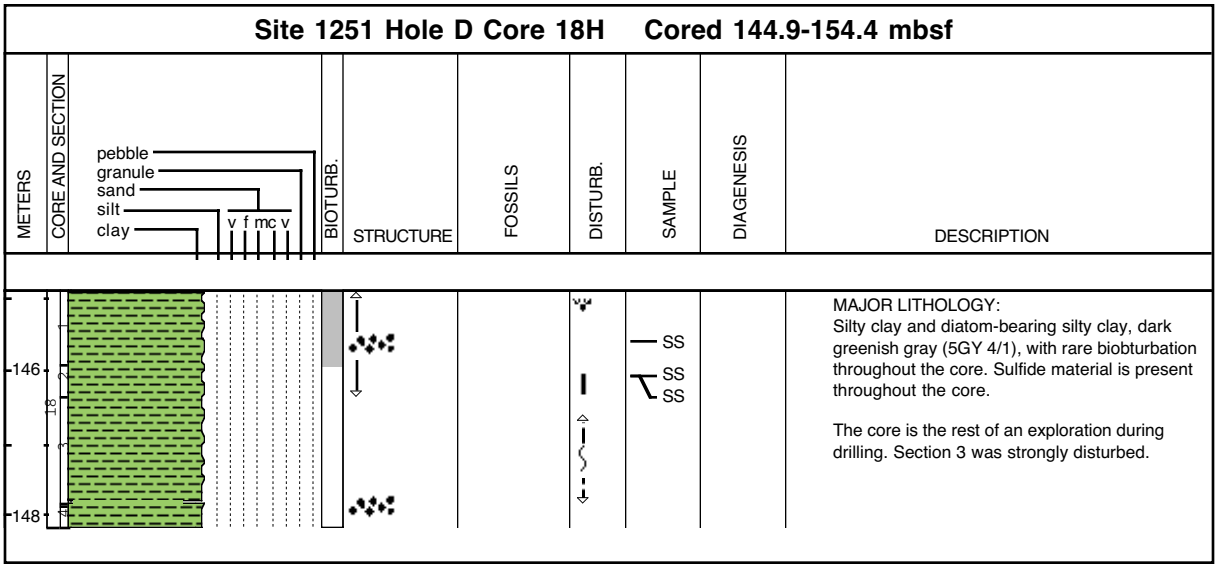
Core Photo


Site 1251 Hole D Core 16H Cored 125.9-135.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
128
130
132
134
SS
SS
SS
SS
MAJOR LITHOLOGY: Silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3) when sulfide rich.
MINOR LITHOLOGY: Diatom-rich silty clay, dark greenish gray (5GY 4/1). Occurs in Section 6 (95-100 cm) in a highly disturbed layer.
Section 2 has carbonate-rich silty layers at 61 and 71 cm.
Section 4 has small (0.1 to 0.4 cm) noncalcareous nodules at 17, 32, and 39 cm.

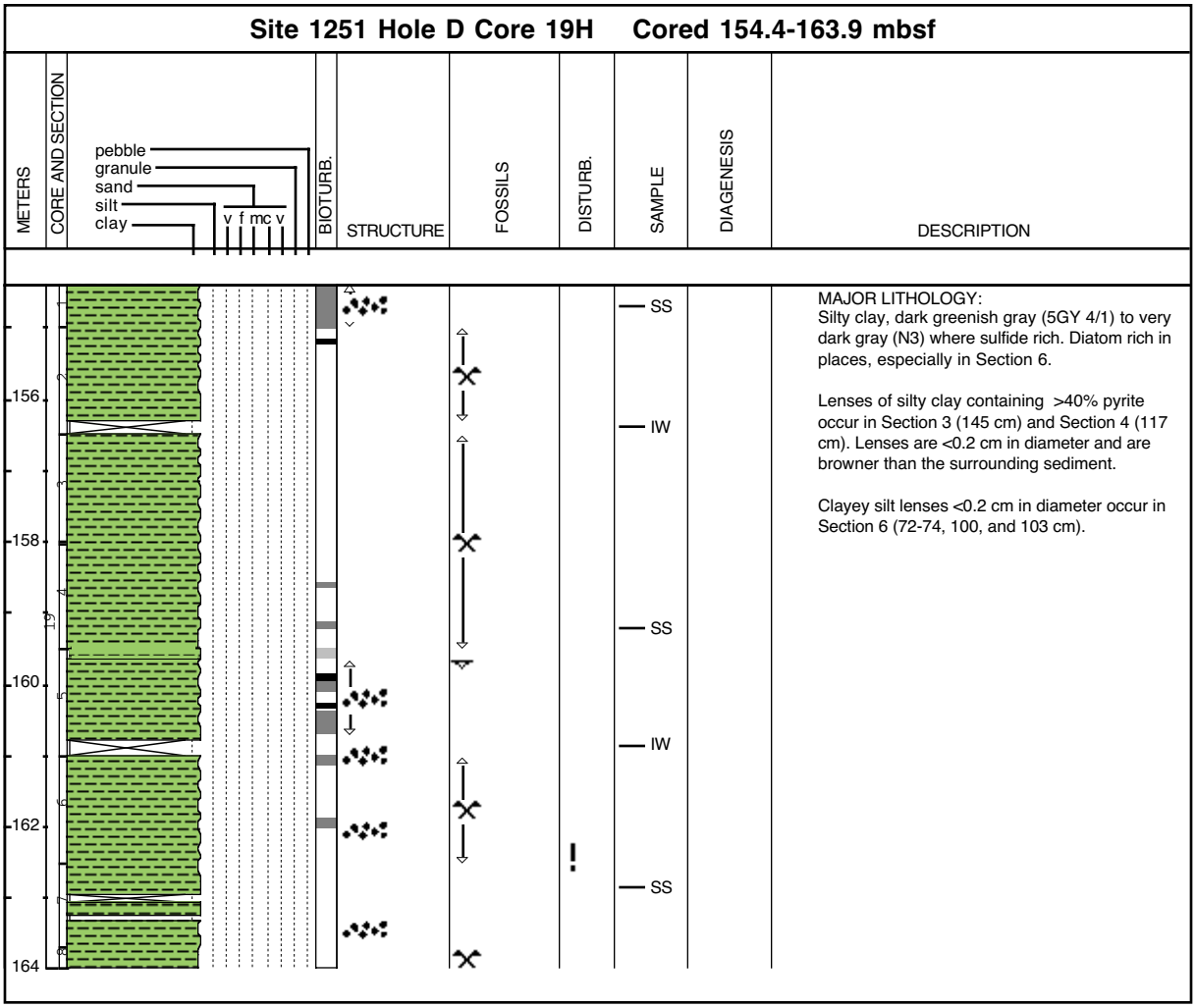
Core Photo


Site 1251 Hole D Core 17H Cored 135.4-144.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
136
138
140
142
144
17
1
2
3
4
5
6
7
8
SS
SS
IW
MBI
SS
PS
PY
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1), which is diatom-bearing in Section 1 (5%). The upper part of the core is slightly mottled with sulfides. Sulfide precipitates (1 mm) occur in Section 3 (87-92 cm). Slight color variations are visible as bioturbation halos and in Section 2 (0-24 cm), which is more brownish.

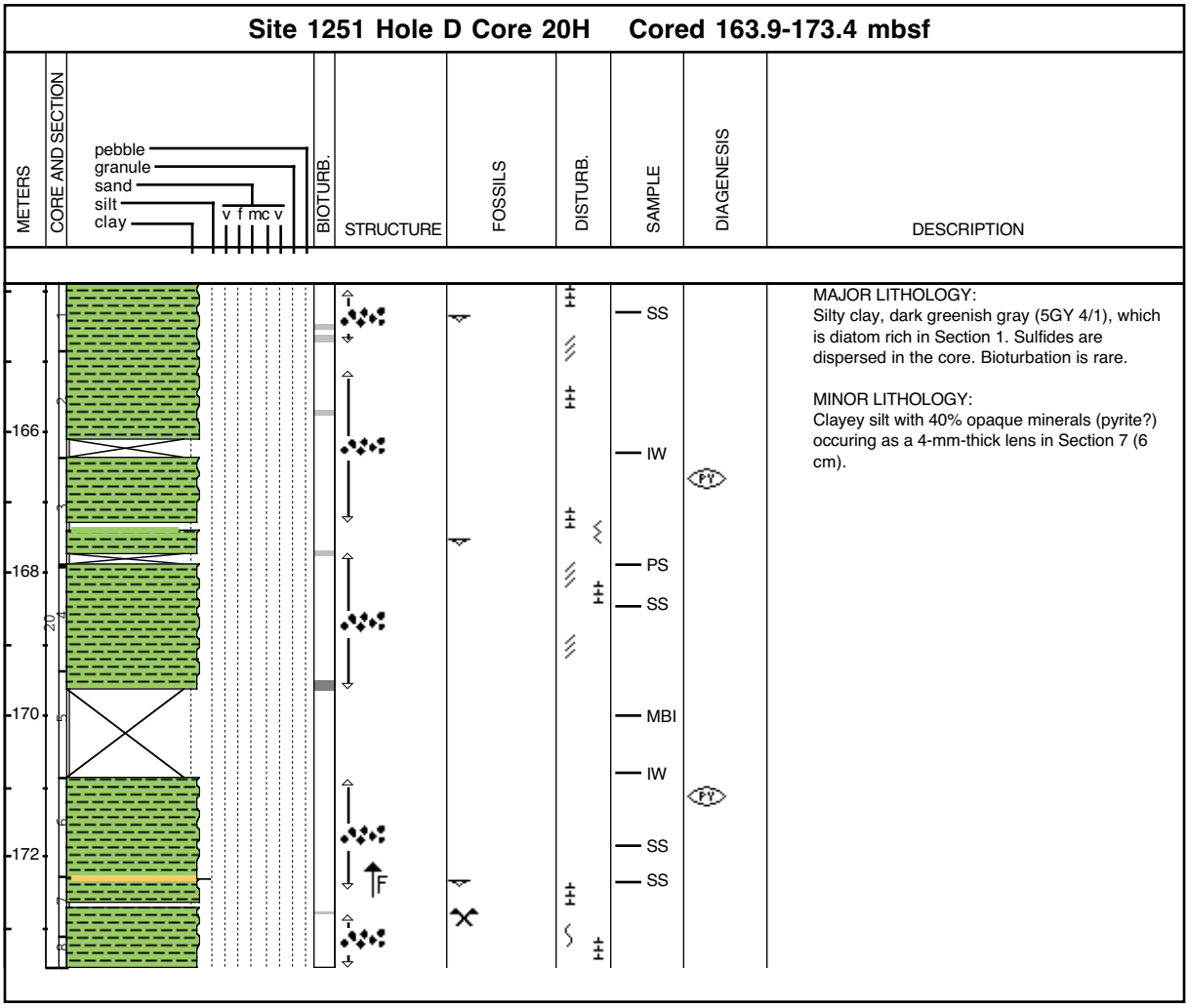
Core Photo


Site 1251 Hole D Core 18H Cored 144.9-154.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
146
148
1
2
3
4
18
SS
SS
SS
MAJOR LITHOLOGY:
Silty clay and diatom-bearing silty clay, dark greenish gray (5GY 4/1), with rare biobturbation throughout the core. Sulfide material is present throughout the core.
The core is the rest of an exploration during drilling. Section 3 was strongly disturbed.

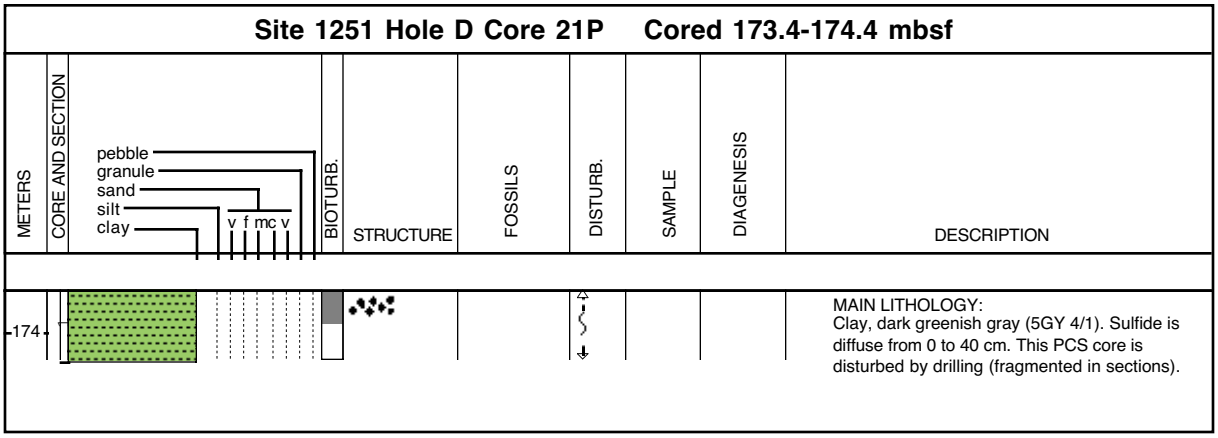
Core Photo


Site 1251 Hole D Core 19H Cored 154.4-163.9 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
156
158
160
162
164
19
SS
IW
SS
IW
SS
!
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3) where sulfide rich. Diatom rich in places, especially in Section 6.
Lenses of silty clay containing >40% pyrite occur in Section 3 (145 cm) and Section 4 (117 cm). Lenses are <0.2 cm in diameter and are browner than the surrounding sediment.
Clayey silt lenses <0.2 cm in diameter occur in Section 6 (72-74, 100, and 103 cm).

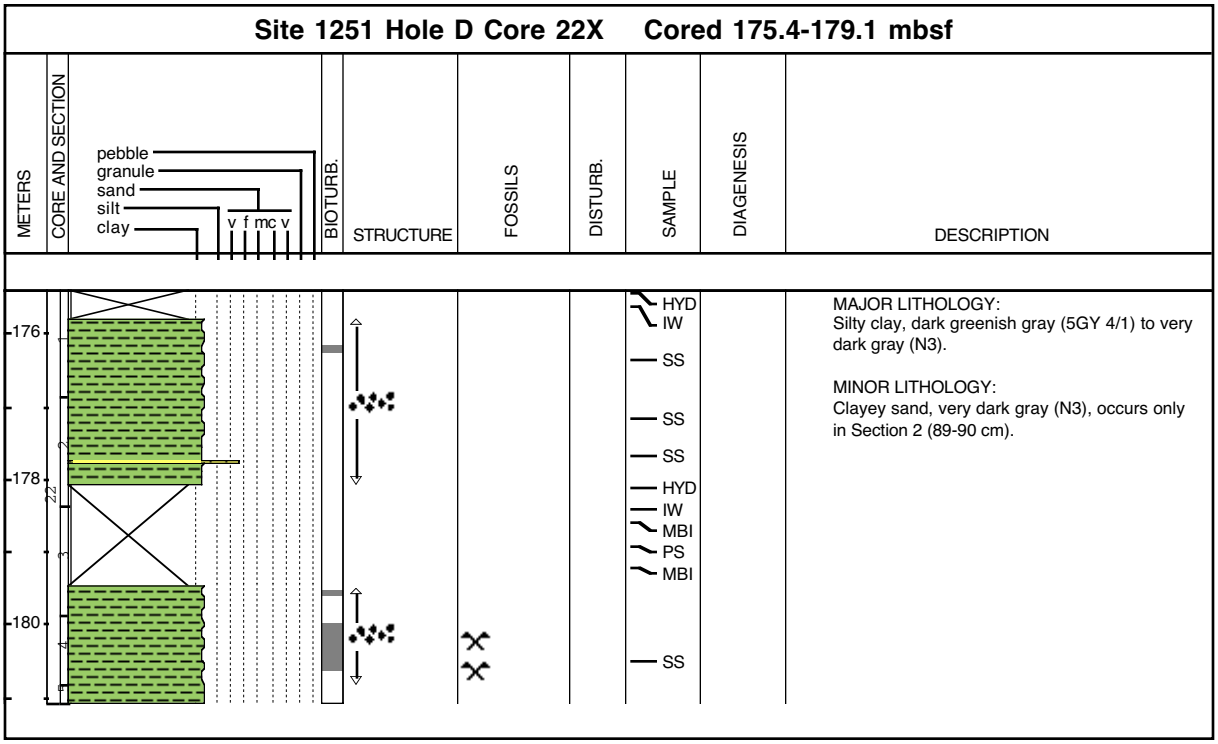
Core Photo


Site 1251 Hole D Core 20H Cored 163.9-173.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
166
168
170
172
20
1
2
3
4
5
6
7
CC
SS
IW
PS
SS
MBI
IW
SS
SS
PY
PY
F
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1), which is diatom rich in Section 1. Sulfides are dispersed in the core. Bioturbation is rare.
MINOR LITHOLOGY:
Clayey silt with 40% opaque minerals (pyrite?) occuring as a 4-mm-thick lens in Section 7 (6 cm).

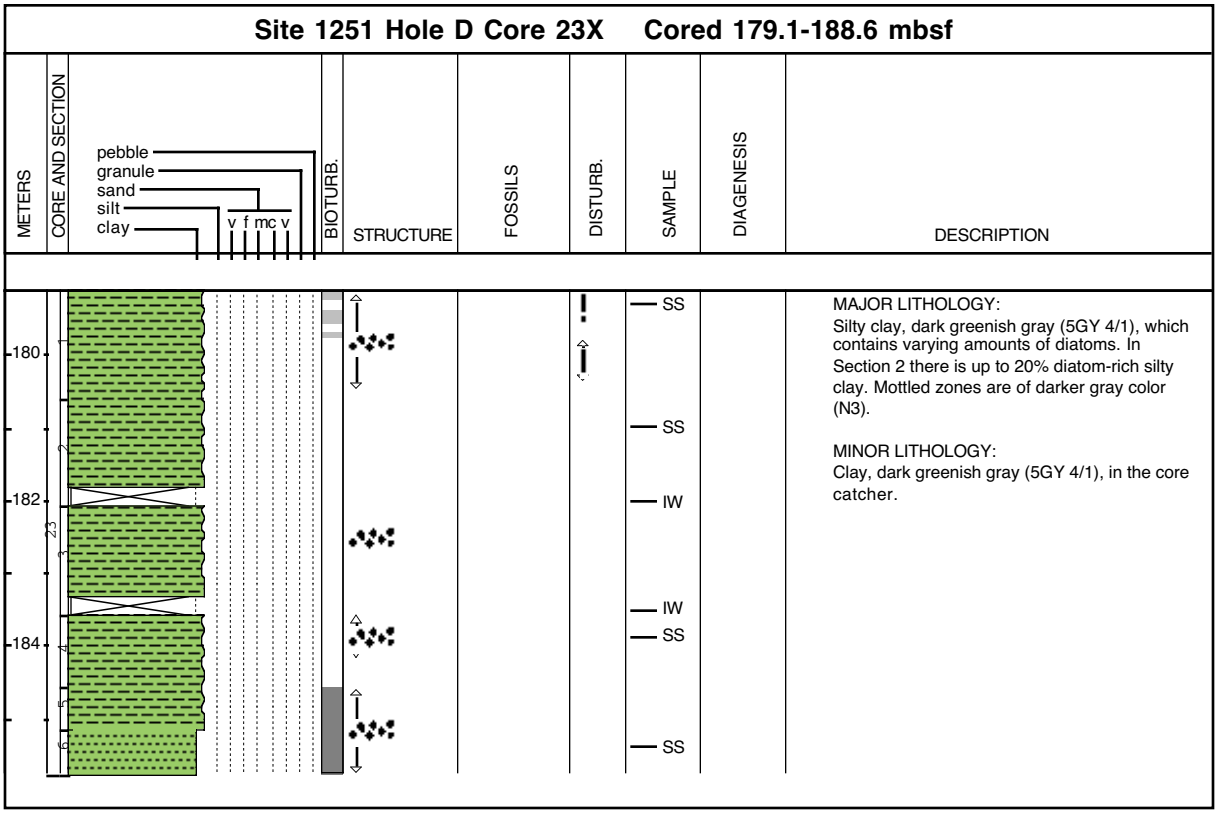
Core Photo


Site 1251 Hole D Core 21P Cored 173.4-174.4 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
174
MAIN LITHOLOGY:
Clay, dark greenish gray (5GY 4/1). Sulfide is diffuse from 0 to 40 cm. This PCS core is disturbed by drilling (fragmented in sections).

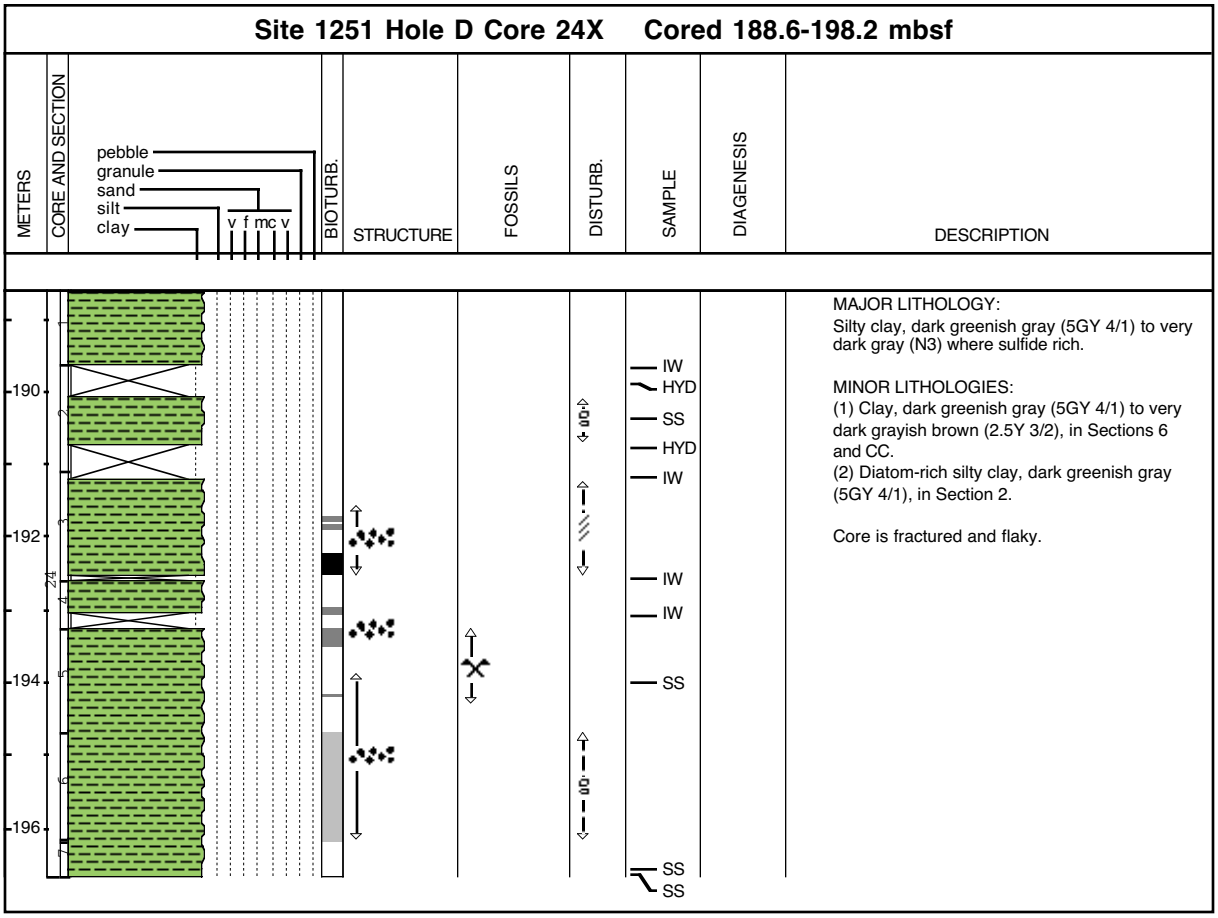
Core Photo


Site 1251 Hole D Core 22X Cored 175.4-179.1 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
176
178
180
22
1
2
3
4
5
HYD
IW
SS
SS
SS
HYD
IW
MBI
PS
MBI
SS
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3).
MINOR LITHOLOGY:
Clayey sand, very dark gray (N3), occurs only in Section 2 (89-90 cm).

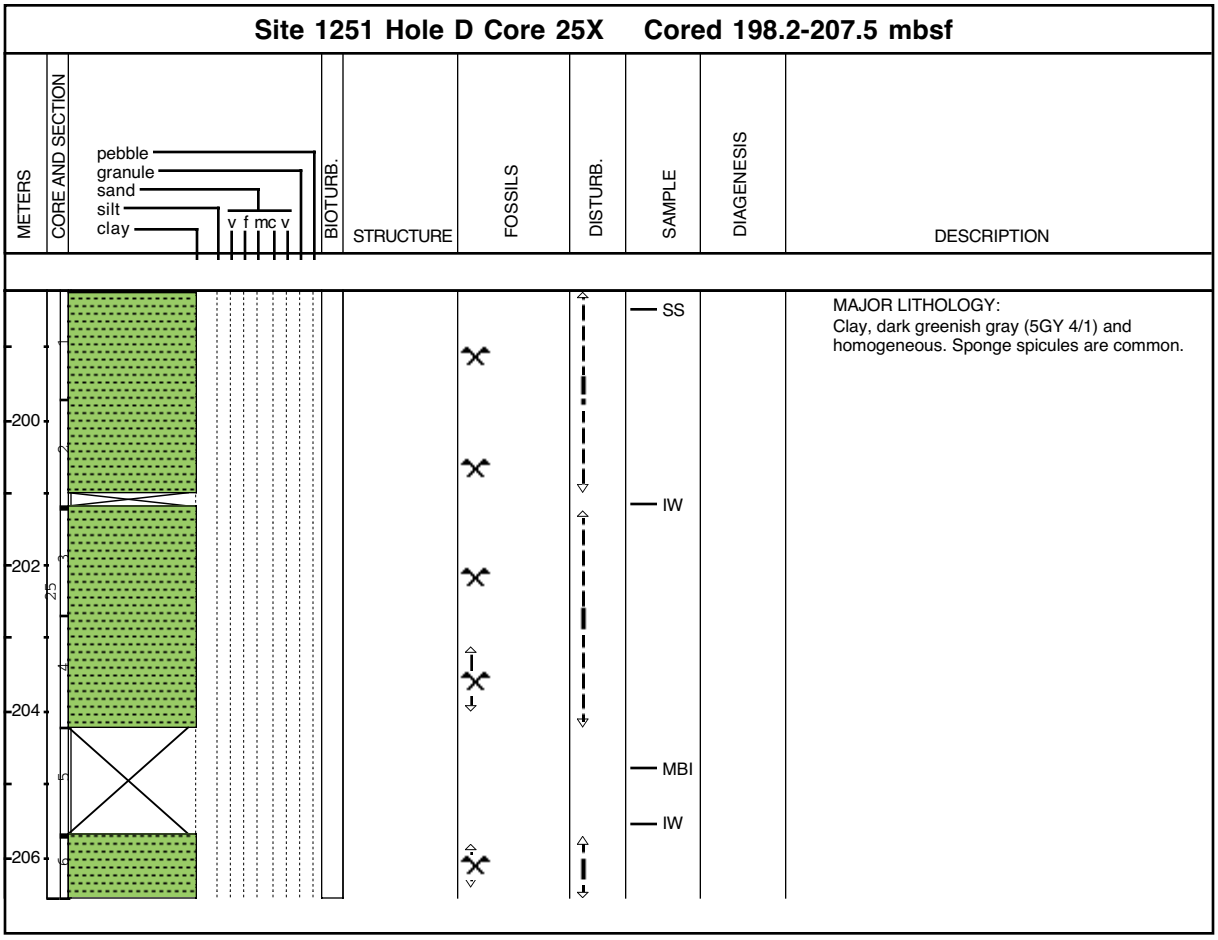
Core Photo


Site 1251 Hole D Core 23X Cored 179.1-188.6 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
180
182
184
23
1
2
3
4
5
6
SS
SS
IW
IW
SS
SS
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1), which contains varying amounts of diatoms. In Section 2 there is up to 20% diatom-rich silty clay. Mottled zones are of darker gray color (N3).
MINOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1), in the core catcher.

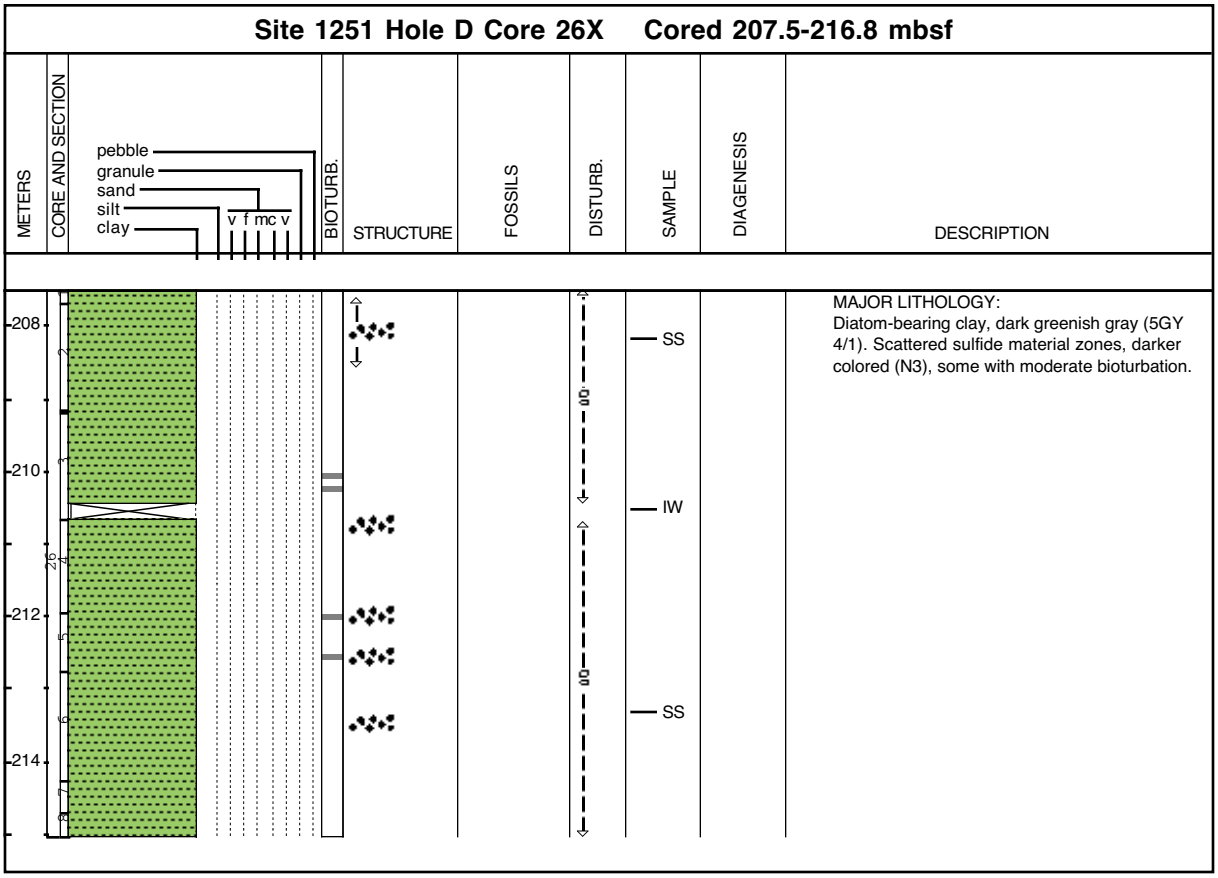
Core Photo


Site 1251 Hole D Core 24X Cored 188.6-198.2 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
190
192
194
196
24
IW
HYD
SS
HYD
IW
IW
IW
SS
SS
SS
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1) to very dark gray (N3) where sulfide rich.
MINOR LITHOLOGIES:
(1) Clay, dark greenish gray (5GY 4/1) to very dark grayish brown (2.5Y 3/2), in Sections 6 and CC.
(2) Diatom-rich silty clay, dark greenish gray (5GY 4/1), in Section 2.
Core is fractured and flaky.

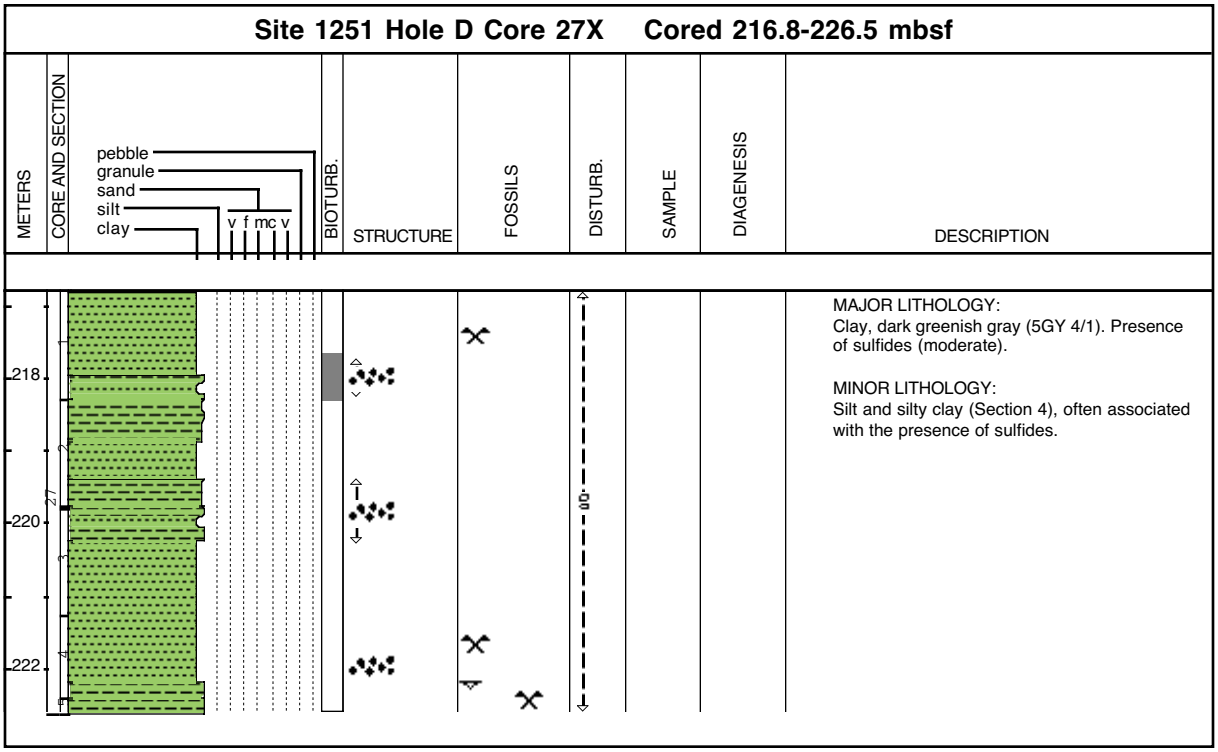
Core Photo


Site 1251 Hole D Core 25X Cored 198.2-207.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
200
202
204
206
25
1
2
3
4
5
6
SS
IW
MBI
IW
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1) and homogeneous. Sponge spicules are common.

Core Photo

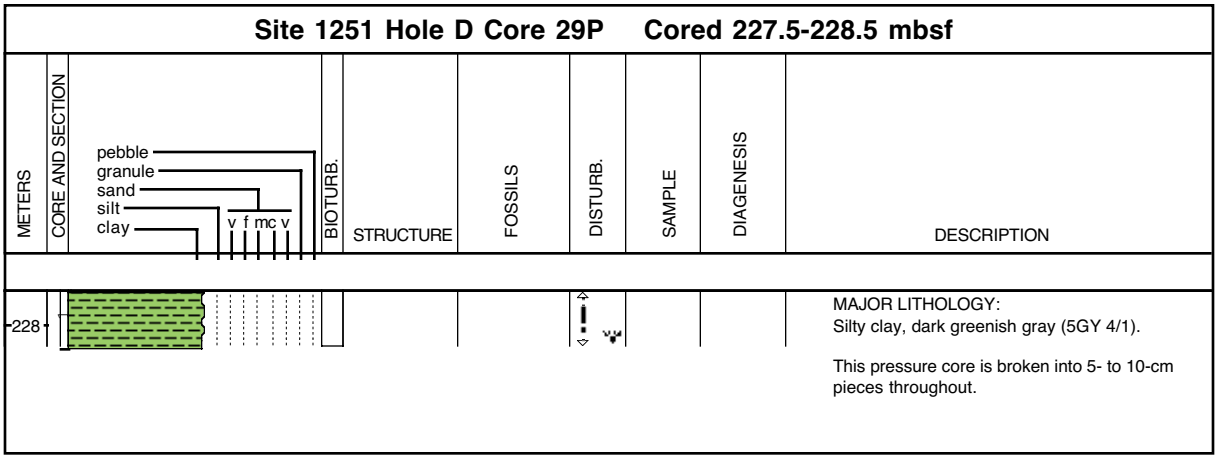

Site 1251 Hole D Core 26X Cored 207.5-216.8 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
208
210
212
214
26
SS
IW
SS
MAJOR LITHOLOGY:
Diatom-bearing clay, dark greenish gray (5GY 4/1). Scattered sulfide material zones, darker colored (N3), some with moderate bioturbation.

Core Photo

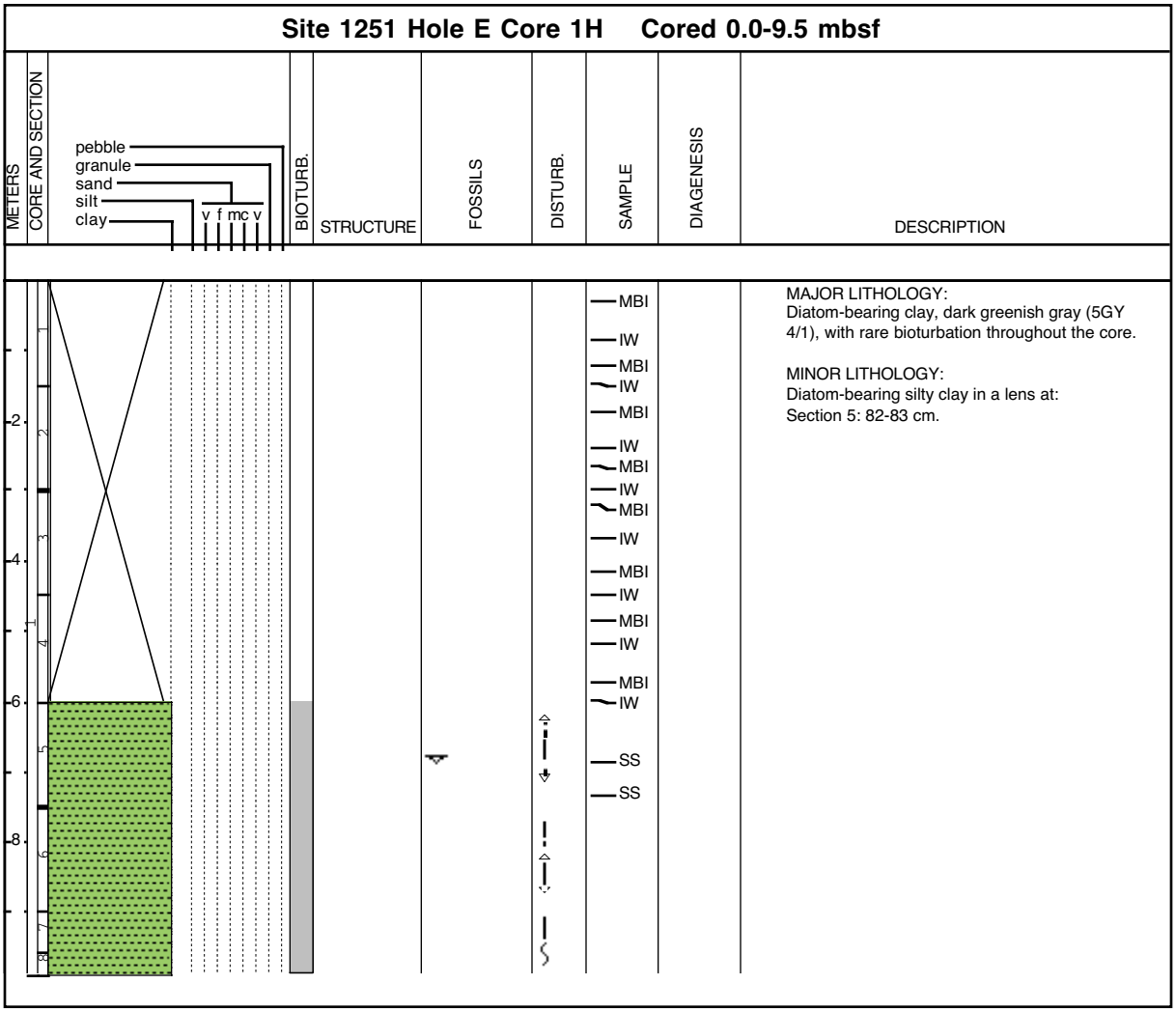


1251D-28Y Fugro Pressure Core not described.

Core Photo


Site 1251 Hole D Core 29P Cored 227.5-228.5 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
228
MAJOR LITHOLOGY:
Silty clay, dark greenish gray (5GY 4/1).
This pressure core is broken into 5- to 10-cm pieces throughout.

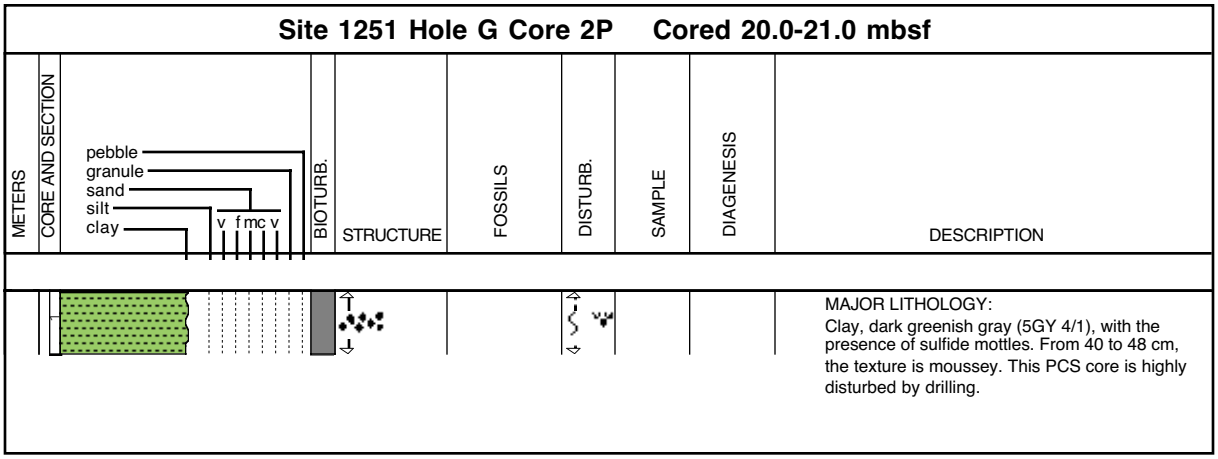
Core Photo



1251F-1H Entire core used for Turbidite studies.

1251G-1H Entire core used for Turbidite studies.

Core Photo


Site 1251 Hole G Core 2P Cored 20.0-21.0 mbsf
METERS
CORE AND SECTION
pebble
granule
sand
silt
clay
v f mc v
BIOTURB.
STRUCTURE
FOSSILS
DISTURB.
SAMPLE
DIAGENESIS
DESCRIPTION
MAJOR LITHOLOGY:
Clay, dark greenish gray (5GY 4/1), with the presence of sulfide mottles. From 40 to 48 cm, the texture is moussey. This PCS core is highly disturbed by drilling.

Sample						Texture			Mineral											Biogenic												
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite needles	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Pyrite	Quartz	Volcanic Glass	Benthic foraminifers	Calcareous shell fragments	Diatoms	Dinoflagellate	Foraminifers	Nannofossils	Planktonic Forams	Radiolarians	Siliceous fossils & spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole B																																
1	H	2	50	2.00	D		20	80			3	8						5				3		3	3				10			
1	H	2	97	2.47	M	2	20	78			5	8						8				5		5	3				10			
1	H	6	60	8.10	D		40	60	5		2	10				6		15				8		5	8				9			
1	H	6	94	8.44	M	30	20	50	8			12			10			20						5	2				1			
3	H	1	12	18.72	M		25	75			2	5			4	3		12				3		2	4				1			Coarse grain interval
3	H	1	123	19.83	M	2	20	78	2		1	6			5		10	8				1			2							Dark gray layer
3	H	2	70	20.73	D		20	80			2							4				4										Homogeneous dark greenish gray clay
3	H	4	4	23.05	M	10	70	20	3		1	20			7	2		40				2										
3	H	5	87	25.38	D		15	85			1	6			2	1		5				2		1					1			Homogeneous clay at the end of section
3	H	CC	33	25.79	M	1	29	70				7			5			5				1		5	3				1			Silty clay clast? or large bioturbation spot
4	H	1	55	28.65	M		20	80			3	8			3			5				2		1	2				1			Light gray spot
4	H	3	17	31.27	M	3	27	70			8	8			3			5				3		8	2				1			Silt layer
4	H	5	28	34.38	M	1	19	80			4	5			3	3		8				2		4	5				1			Bioturbated areas, high sulfide deposits
4	H	6	30	35.90	M	2	18	80								3						12			1							
4	H	CC	30	37.38	D	2	38	60			1	20						10				3										Homogeneous clay
5	H	1	35	37.95	D		15	85			3							3				3							6			
5	H	1	71	38.31	D		25	75			3							2				8										Coarse fraction
5	H	2	27	39.37	M	4	16	80	1						2	2		3				10		15								Silt lens interbedded with clay
5	H	3	56	41.07	M		30	70	1						2	12		3						8					10			Opaque-bearing silty clay
5	H	4	79	42.75	M	10	50	40	3				3			2		5						20					5			Foraminifer-rich silt
5	H	6	35	45.31	D		15	85	2		8				2	2		3				8		4	3				2			Homogeneous clay
5	H	6	35	45.31	D		20	80				1	1			3		3	1			10										
6	H	1	40	47.50	M		20	80				1	1			3		3	1			10										
6	H	3	65	49.97	M		20	80					1			2		2				10							5			
6	H	4	54	51.36	M		25	75										5				10							10			
6	H	6	35	54.06	M		20	80					1			2		2				10							5			
6	H	6	66	54.37	D		25	75										5	1			10							5			
7	H	1	39	56.99	D		20	80				6				2		3				10			2				2			
7	H	2	63	58.73	D		30	70	1			8			2	3		6				8			5				3			
7	H	3	46	60.06	D		30	70	2			10			4			6				4		2	2							
7	H	4	84	61.94	D		15	85	2			6			2	2		3				4			8							
7	H	7	34	65.61	D		30	70	2		3	10			3	3		8				4		3	5							
8	H	1	123	67.33	M		30	70								2		3				7			5				8			
8	H	2	44	68.04	D		30	70				2	2			3		5				5			10				2			
8	H	4	115	71.75	M		20	80								2		5				10			5				5			
8	H	5	46	72.44	D		30	70				3	1			3		10				5							10			
8	H	5	60	72.58	D		20	80				2						5				5			5				5			
8	H	CC	6	74.96	D		35	65				3				5		5				15			2				5			
10	H	1	50	85.60	D		30	70				2				8		10				5							8			
10	H	2	112	87.72	D		20	80				1				3		3				10			5				5			
10	H	3	106	89.16	D		20	80				2				3		5				5							5			
10	H	5	10	91.20	D		20	80								3		10				2							8			
11	H	1	60	95.20	D	2	30	68	2			10			3	3		8				8			4							
11	H	4	55	99.09	D	2	40	58	3			15			3	5		5				20		2					5			
11	H	6	78	101.59	D		20	80	4			5	1			2		3				5		2	2				3			
13	H	2	102	108.27	M		15	85								5		5				3							5			

Sample						Texture			Mineral											Biogenic												
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite needles	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Pyrite	Quartz	Volcanic Glass	Benthic foraminifers	Calcareous shell fragments	Diatoms	Dinoflagellate	Foraminifers	Nannofossils	Planktonic Forams	Radiolarians	Siliceous fossils & spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole B (continued)																																
13	H	5	25	111.80	D		20	80				2	1			3		10				10							13			
13	H	7	107	115.26	D		20	80				2				3		10				10			2				10			
14	H	1	29	115.89	D		30	70				3				5		15				5		5					10			
14	H	3	65	118.76	D		35	65								5		10				10		10	5				10			
14	H	5	20	121.31	D		25	75								5						8		10								
14	H	6	13	122.74	D	3	25	72								5						8		3								
14	H	6	92	123.53	D	2	25	73								3						8										
15	H	2	58	127.18	D		30	70				2						5				5							12			
15	H	4	74	130.34	D		30	70				2	1			5		15	1			3							10			
15	H	6	18	132.72	D		30	70				2	1			2		10	1			3							7			
16	H	1	54	135.14	M		30	70		30								10				5							5			
16	H	4	128	140.38	D		25	75				2	2			3		10				2							2			
16	H	5	50	141.10	D		30	70				2				3		5				3			1				4			
17	H	1	45	144.55	M		40	60								40																
17	H	2	55	146.15	D		10	90			2		2					30				3							1			
17	H	2	70	146.30	M		10	90										6				3							1			
17	H	3	91	148.01	M		90	10								3		30				1										
17	H	5	57	150.67	M		5	95			5							5				5										
19	H	1	53	156.13	D		15	85								2		6				8		5								
19	H	3	19	158.55	M		5	95								3						4			4				1			
19	H	4	114	160.92	M		15	85								1						5			2				3			
19	H	5	104	162.32	M		15	85								2						5			7				1			
20	H	2	42	165.10	D		20	80								1						5			2				1			
20	H	5	109	170.27	M	8	80	12			1	5	10					50															
20	H	5	113	170.31	D		40	60								5						1							1			
20	H	7	54	171.72	D	5	30	65								5																
22	H	1	62	173.32	M	8	50	42	5			15			10	2		18				5		3					5			
22	H	2	42	174.62	D	2	23	75	3			10				5		8				4							3			
22	H	3	98	176.68	M	5	30	65	1			2			3	3		5	10			10		2	1							
22	H	3	102	176.72	M	25	20	55	2			2			3	25		3	25													
22	H	4	64	177.84	M		15	85			2	2				5		4				5			8							
22	H	5	27	178.95	D	1	24	75	3			8			5	5		8				15			1							
23	H	2	71	184.41	D		20	80	1			5			2	3		5				4										
23	H	3	30	185.50	M		25	75				7				18		2				3							1			
23	H	4	23	186.93	D	1	15	84	1			5			3	1		8				3										
23	H	5	16	188.08	D		15	85				3			1	2		3				3							2			
23	H	CC	10	188.68	D	5	15	80	3			5			2	3		8				4										
25	X	CC	20	194.80	D	3	15	82	2			4			3	2		5				2		1	3				1			
26	X	1	52	204.72	D	1	19	80	2			5			3	2		8				3			5				1			
26	X	2	82	206.52	D		15	85	1			3			2			4				2			2							
26	X	5	42	210.50	D		20	80	1			4			2			4				5		2	1				2			
27	X	1	49	213.99	D		15	85	1			7	1		3	10		8				2							1			
27	X	4	55	218.55	D	5	25	70	3			8	8		6			10				8		3					3			
27	X	6	44	221.44	D	1	19	80	2		2	5	3		5			8				3							3			
28	X	2	77	225.37	M	10	25	65	3		3	5			4	4		8	5			1		2	5				2			
28	X	4	7	227.67	D		15	85	3		3	3						3				1		8	20							
28	X	CC	44	230.67	D		20	80	2			3				4		5				4		2	40				1			

Sample						Texture			Mineral											Biogenic													
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite needles	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Pyrite	Quartz	Volcanic Glass	Benthic foraminifers	Calcareous shell fragments	Diatoms	Dinoflagellate	Foraminifers	Nannofossils	Planktonic Forams	Radiolarians	Siliceous fossils & spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole B (continued)																																	
29	X	1	105	233.85	D		20	80	1		5	8				3		5				5		8	30				5			
29	X	2	106	235.36	D	1	19	80			5	5	3		2	1		3				3		5	25							
29	X	3	125	237.05	M	8	35	57	3		5	10			5	5		8				6		8	20							
29	X	4	51	237.81	D		20	80				5			2	3		4				8		3	20				2			
30	X	1	74	243.14	D		15	85				3			1	2		2				8		2	30							
30	X	2	77	244.67	D	1	19	80	1		2	8			2	3		4				9		4	15							
30	X	4	56	247.46	D		15	85				8			2	3		4				5		3	20							
31	X	1	68	252.78	D		15	85	1			3			2			4				4		2	10							
31	X	2	83	254.43	M	5	25	70				2	1		2	3		3				4		8	25							
31	X	4	48	256.99	D	1	15	84			3	8				3		5				2		2	15							
32	X	2	62	263.82	M		20	80				1				3		5							10				4			
32	X	3	42	265.12	D		20	80				2				5		10							5				2			
32	X	5	54	268.13	M		20	80					1			5		10						2	12				1			
32	X	CC	60	269.23	M		10	90		70						2		3						2					1			70% of oval calcite grains
33	X	1	41	271.71	D	2	10	88										2						6	8							
33	X	1	86	272.16	M	2	30	68					1					2				3		10	25				2	1		
33	X	2	85	273.65	M	1	20	79					1									1		10	8							
33	X	4	81	276.61	M	3	25	72					1			3		1						15	15							
34	X	1	19	281.19	M	5	30	65				1	10			5		10				2					2			2		
34	X	3	115	285.13	D		15	85				2	1			3		5				2			5				1	3		
34	X	5	36	287.19	D		20	80				2				3		5				2		2	5				1	2		
36	X	1	36	292.96	D		20	80								2		5				1			5		2		1	2		
36	X	4	56	297.66	D		20	80				2	3			5		10						3	10				1	2		
36	X	5	44	299.04	D		20	80				2	1			3		10							8		1		1	2		
36	X	CC	19	300.47	D		25	75				1				3		1						5	8		1			1		
37	X	1	33	300.93	M	15	55	30					5									1										
37	X	1	42	301.02	M	5	90	5					30																			
37	X	2	68	302.78	D	5	40	55					10			5																
37	X	3	108	304.68	M	5	75	20																10								
37	X	4	31	305.41	M		40	60			70		10																			
37	X	4	81	305.91	M		30	70	5							2		2				5										
37	X	5	34	306.94	D		20	80					2			3						8							1			
37	X	6	27	308.37	D		20	80	1				3					3											10			
38	X	1	42	310.72	D		25	75	2		10	10				2		5				5			10							
38	X	3	40	313.70	D		25	75			3	10			3	5		8				5										
38	X	3	74	314.04	D	5	35	60	5			15			4	3		10				2										
38	X	3	126	314.56	D	3	27	70	2			8			6	8		5				5										
38	X	4	68	315.48	M	10	25	65	5		30	5	20					3						4	30							
38	X	4	95	315.75	D		10	90				5			1	6		3														
38	X	5	28	316.58	M	7	35	58	3			10	20		4	5		5				1							1			
38	X	6	8	317.77	M	2	28	70				3	20			2		4														
38	X	6	34	318.03	D	3	27	70	2			10				4		5				5										
38	X	CC	14	318.50	D		10	90	3			5				1		2														
39	X	1	73	320.63	D	3	32	65	5			15	10		8	5		8				5										
39	X	2	20	321.60	M		15	85	1			6			2	4		3				4										
39	X	2	69	322.09	M	1	19	80	1		80							2														
39	X	2	133	322.73	D	1	24	75			10	6				3		4				12			8							

Sample						Texture			Mineral											Biogenic												
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite needles	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Pyrite	Quartz	Volcanic Glass	Benthic foraminifers	Calcareous shell fragments	Diatoms	Dinoflagellate	Foraminifers	Nannofossils	Planktonic Forams	Radiolarians	Siliceous fossils & spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole B (continued)																																
39	X	4	102	325.42	D		30	70	3			10				2		10				5										
39	X	6	100	328.40	D		25	75				3				3		2				20										
41	X	1	6	330.66	D		25	75	1			3				1		3				18										
41	X	3	9	333.69	M		15	85			80	1						1				10										
41	X	4	102	336.12	M	1	14	85	1		80	5				2		4				3										
41	X	5	43	337.03	D		25	75	1			5				2		2				18										
42	X	2	64	341.34	D		25	75				3			1	1		2				18		1	8							
42	X	5	48	345.68	D		25	75	1			8	1		1	3		3				15			3							
42	X	7	47	348.17	D		20	80			5	6			1	2		3				10										
43	X	3	40	352.20	D		25	75				8	8			1		5				15			3							
43	X	4	54	353.81	D		25	75	1		2	5				1		2				18		1	2							
44	X	1	41	358.81	D		20	80	1			8				3		2				8										
44	X	4	39	363.29	D		20	80								4		2				8							4			
44	X	6	30	366.20	D		10	90			80					3		2														
45	X	1	42	368.42	D		20	80	2			8	7		3	4		4				1										
45	X	3	28	371.28	M		25	75			70	3	10			5		3				3										
45	X	6	43	375.93	D		20	80	2			3				7									3				4			
46	X	1	93	378.53	M		15	85			20							2				1										
46	X	1	99	378.59	M		3	97			90					3		1				1										
46	X	3	87	381.47	M		10	90														3							4			
46	X	4	30	382.40	D		10	90			3	2										3							1			
47	X	1	29	387.59	D		20	80										4				1							2			
47	X	3	40	390.70	D		20	80			8	2	7			3		3				3										
47	X	5	126	394.56	M		10	90			90					5																
47	X	CC	24	396.54	M	3	25	72					20			2		2														
49	X	1	86	398.76	M		15	85			80	1	1			5		2						2					3			
49	X	3	35	401.25	D		20	80				2				5		10						1					2			
49	X	3	89	401.79	M	10	20	70				2	8			10		10						2	2				3			
49	X	6	23	404.83	D		20	80				5			1	3		2				30							8			
50	X	1	33	406.83	D		20	80			1					3						13							2			
50	X	5	89	413.39	D		20	80					1			2		2				4							4			
50	X	6	58	414.58	M		5	95			10					3		3														
51	X	1	100	417.20	D		20	80					10			3						3										
51	X	2	81	418.51	M		25	75					20			5		3				1										
51	X	4	42	421.12	D		15	85					8			1		5				3							1			
51	X	4	84	421.54	D		15	85								4		3				6										
51	X	6	67	424.30	D		10	90					1			5		10				8										
52	X	1	63	426.43	D		20	80					4		2	2		3				8										
52	X	1	72	426.52	M		20	80			2	2	3		1	2		1				8										
53	X	1	74	436.24	D		20	80	1						2	3						6							5			
53	X	3	18	438.66	M	5	35	60	2				15			3		3				5										
53	X	4	51	440.49	D	5	20	75					6			3						15										
53	X	5	115	441.86	M	5	30	65	2							15		4				10										
Hole C																																
1	H	1	11	0.11	D		10	90								1						5					*					in clay
1	H	1	43	0.43	D		5	95														5									1	
1	H	5	67	6.67	M		30	70			1	5				10		15				8					*				1	in silt; 1 benthic foraminifer seen

Sample						Texture			Mineral											Biogenic												
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite needles	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Pyrite	Quartz	Volcanic Glass	Benthic foraminifers	Calcareous shell fragments	Diatoms	Dinoflagellate	Foraminifers	Nannofossils	Planktonic Forams	Radiolarians	Siliceous fossils & spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole C (continued)																																
1	H	5	93	6.93	D		5	95			*				1	1		5				8		*			*				2	
1	H	5	128	7.28	D		10	90								3				*		8				*					2	in clay
1	H	6	25	7.75	D		10	90								3		5				5									1	in clay
1	H	6	27	7.77	M		70	30								5		20				1		1								in coarse layer
2	X	1	65	8.75	D	2	28	70								3		5			5			7								homogeneous olive green gray (charact.)
2	X	2	71	10.31	D		20	80			3					2		3				15		4								color change from (brownish)
2	X	2	73	10.33	D		30	70								3		5				8										color change (green/gray)
2	X	3	102	11.69	M	60	30	10	5		5	3	10			3		5						6								black sandy layer
2	X	4	23	12.40	D	8	27	65	3			15			5	2		10				4		1	1							
2	X	4	42	12.59	M	2	15	82	3		8	8				2		7				1										
2	X	4	77	12.94	M	70	20	10	10			18	5		5			27														
Hole D																																
1	X	1	15	0.15	D	2	40	58	5		3	15	1			3		10				15			3				3			
1	X	1	21	0.21	D		30	70	5		3	12			1	2		5				20			3							
1	X	2	73	2.23	M	1	30	69	2		1	8	1			3		10				13							5			
1	X	3	55	3.05	D		25	75			2	6				3		10				13			1				6			
2	X	2	50	10.10	D		30	70	2			8			3	5		4				18			1							
2	X	2	60	10.20	M	15	25	60	5			15						10				5		2	1				1			
3	X	1	34	17.94	D	2	28	70	5			10				5		8				3		1	1				1			
3	X	1	65	18.25	M	1	19	80	1			7			1	2		8														
3	X	1	73	18.33	M	70	20	10	8			30	3		5	3		35														
3	X	2	23	19.33	D		30	70	2			12			3	2		4				5		2	2				1			
3	X	2	30	19.40	M		8	92				5			1	1		2				2										
3	X	2	88	19.98	M	50	25	25	8			30			6	4		25				1										
3	X	2	110	20.20	D	5	15	80	1			5				2			4			5		3								
3	X	3	70	21.30	D		15	85	1			5			2		5					4		1			1		1	1		
4	H	1	60	27.50	D		30	70	3		3	3				4		8						2			1		1	2		
4	H	3	10	29.95	M		30	70	2		2	5				2		15						4	3				2	2		
4	H	3	44	30.29	D		40	60	5		5	3				3		10											2			
4	H	3	70	30.55	M		40	60			3	5	2			3		10				5								3		
4	H	5	41	33.26	D		25	75	2		1	5					3	3							2							
5	H	2	24	38.14	M		25	75	2		2	1				8		8				1								1		
5	H	2	27	38.17	M		30	70	2			1				10		8				2			3				2	2		
5	H	4	65	41.55	D		30	70	3		2					3		5				6		2	3				2	1		
7	H	1	33	48.23	D		25	75			8					3		2				10							2			
7	H	4	55	52.77	D		25	75			3							3				10										
7	H	6	123	55.78	D		25	75			3							5				10		1								
8	H	1	60	58.00	D		30	70	2		1	5				5		3				10							4	2		
8	H	3	27	60.67	D		25	75			2					3		5				10		2	3				1	2		
8	H	5	30	63.70	D		30	70	3			3				3		5				10		1			2		1	1		
9	H	2	54	68.94	D		25	75	2		2					5		8				3		1	3					3		
9	H	4	58	71.98	D		25	75	1		2	2				60		4				2		2	3		1		1	2		
9	H	4	129	72.69	M	25	30	45			25		2			3		3				3		5								
9	H	7	20	75.09	D		25	75	2			2				5		4				2					1		1	2		
11	H	1	48	78.88	D		15	85								2		3						1					3			
11	H	3	46	81.25	M		20	80	1		3	1				3		5				3										
11	H	7	36	86.85	D		25	75	3							5		4				5										

Sample						Texture			Mineral											Biogenic												
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite needles	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Pyrite	Quartz	Volcanic Glass	Benthic foraminifers	Calcareous shell fragments	Diatoms	Dinoflagellate	Foraminifers	Nannofossils	Planktonic Forams	Radiolarians	Siliceous fossils & spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole D (continued)																																
12	H	1	40	88.30	D	2	28	70	5			12			8	2		5	3			11							3				
12	H	3	55	91.40	D		10	90										5				5								3			
12	H	5	127	95.12	D		30	70	2			10			5	5			1			10			2				4			
13	H	6	91	104.58	D		35	65	3							2		8				10		4								dominant lithology lower part of core
14	H	1	77	107.67	D		25	75	3			10	1		5			6				3						1				
14	H	2	25	108.65	M	3	57	40	5			15	10		6	3		8				8						8				
14	H	3	87	110.77	D		20	80	1			10			2	1		5				3						1				
14	H	5	95	113.85	D		25	75	2			10			5			5				4						1				
14	H	5	98	113.88	M		35	65	1			15			5	2		8				20						8				
14	H	6	40	114.80	D		25	75	5			8			5	1		3				7						1				
14	H	7	75	116.18	D		25	75	3			12			5	2		5				6						5				
15	H	2	81	118.71	D	1	25	74								2		2					3								2	
15	H	3	69	120.09	M	2	50	48								50		3														Opaque mineral - pyrite?
15	H	4	67	121.57	D	1	25	74							7	2		3				4										
15	H	CC	13	125.45	D		25	75								2		3				20										
16	H	2	21	127.61	M		30	70				2				8		6						2			1			1	1	
16	H	2	62	128.02	D		35	65				2	1	2		10		10			1	1								1		
16	H	5	22	132.12	D		30	70				2		2		10		10				2								1		
16	H	6	96	134.36	M						1					5		3			5	10		3								
17	H	1	116	136.56	D		25	75				2				10		10				5								1		
17	H	3	116	139.56	D		25	75			2			2		8		8				3										
17	H	6	111	144.01	D		25	75			2	1	1	2		5		10				4										
18	H	1	70	145.60	D		25	75			1		1			2		10				2									1	Carbonate - biogenic origin
18	H	2	9	146.03	D		25	75										5				8									2	
18	H	2	11	146.05	D	1	30	69			1		1			1		10				5									2	Carbonate - biogenic origin
19	H	1	28	154.68	D		25	75				2	2			2		6				1									1	
19	H	4	116	159.17	D		30	70					2			40		5				1										Opaque mineral - pyrite?
19	H	6	92	161.93	D	1	25	74			3		2					15				5		1							2	Carbonate - biogenic origin
20	H	1	4	163.94	D		30	70			2		1			5		2				10					1			2	2	
20	H	4	54	168.42	D		30	70				2	2			3		5														
20	H	6	93	171.81	D		30	70				2		2		8		5				3			2					1		
20	H	7	6	172.32	M		60	40				2	1	3		40		2						2								
22	X	1	94	176.34	D		25	75	2			3	1			3		10				2		1						1		
22	X	2	27	177.14	D		30	70	1			5				2		5				1					1			1		
22	X	2	79	177.66	D		20	80				1				5		5				1										
22	X	4	60	180.47	D		30	70	2			2				6		7				4								1	2	
23	X	1	15	179.25	M	1	30	69			3		4			5		15				2					2				2	Carbonate - biogenic origin
23	X	2	56	181.16	D		25	75			1		1			2		20				20									2	Carbonate - biogenic origin
23	X	4	27	183.84	D		25	75					1			2		20				3								1		
23	X	CC	20	185.36	D		20	80			3																				1	Carbonate - biogenic origin
24	X	2	76	190.38	D		25	75					1			1		10				10									2	
24	X	5	73	193.98	D		25	75			1					1		15				5										Carbonate - biogenic origin
24	X	6	33	195.01	D		15	85			2		1									2										Carbonate - biogenic origin
24	X	CC	44	196.62	M		25	75					1			4						8										
25	X	1	25	198.45	D		20	80					2			5		5				4										Diatom fragments; characteristic clay for upper part of core
25	X	4	2	202.72	M		10	90	2							5						2		4								grayish color lithology (spots)
26	X	2	47	208.15	D		15	85								5		20				5									1	

Sample						Texture			Mineral											Biogenic													
Core	Core type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Biotite	Calcite needles	Carbonate	Feldspar	Glauconite	Mica	Muscovite	Opaques	Pyrite	Quartz	Volcanic Glass	Benthic foraminifers	Calcareous shell fragments	Diatoms	Dinoflagellate	Foraminifers	Nannofossils	Planktonic Forams	Radiolarians	Siliceous fossils & spicules	Siliceous spicules & others	Silicoflagellates	Sponge Spicules	Comments
Hole D (continued)																																
26	X	6	54	213.26	D		10	90								8		10				5										in clay
27	X	4	40	221.70	D		10	90	1		4					3		5				3										
27	X	4	104	222.34	M	5	30	65	2		5		4			3		5				3										
Hole E																																
1	H	5	82	6.82	M	5	25	70	3			12			5			8				5								3	1	
1	H	5	130	7.30	D		15	85	1			5			2	2		2				8									1	

Sample						Texture									Biogenic		
Core	Core type	Section	Top	Bottom	Lithology	Sand	Silt	Clay	Biotite	Feldspar	Glauconite	Muscovite	Opaque minerals	Quartz	Diatoms	Foraminifers	Comments
Hole B																	
37	X	4	31	32	M	10	10	80			1		5			9	Micritic carbonate matrix
39	X	2	68	69	M	3	10	77			2		15	3	5	3	Micritic carbonate matrix