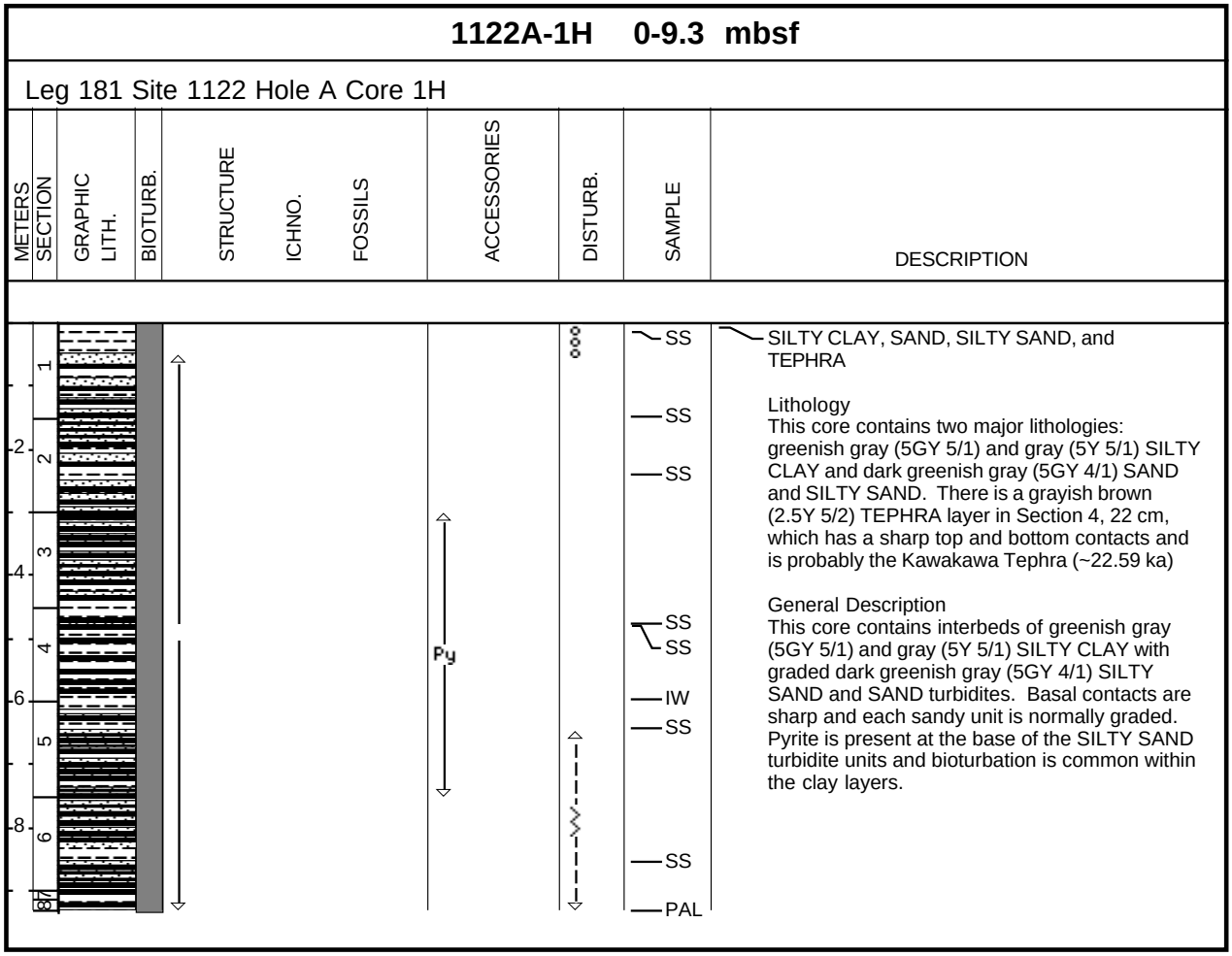
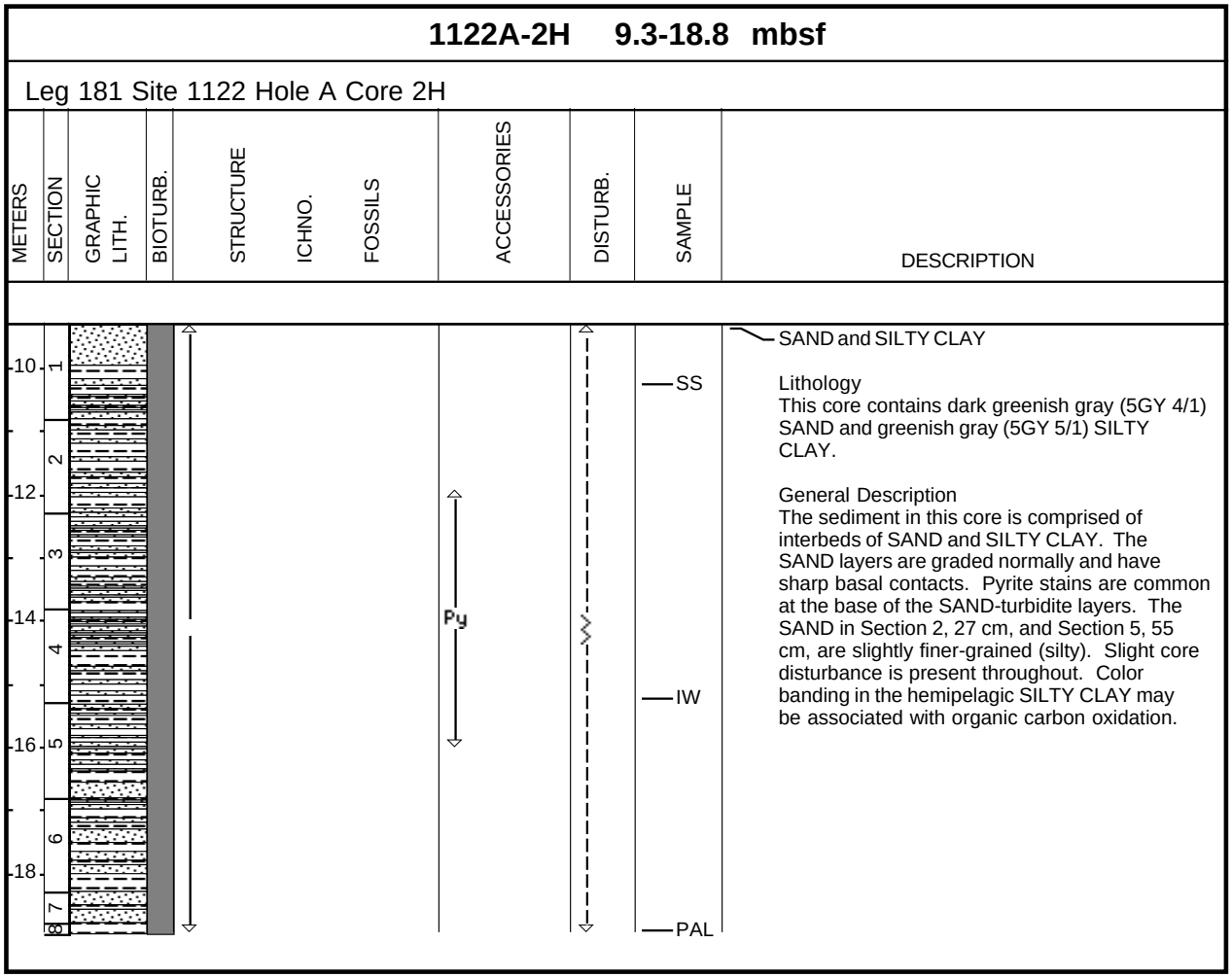
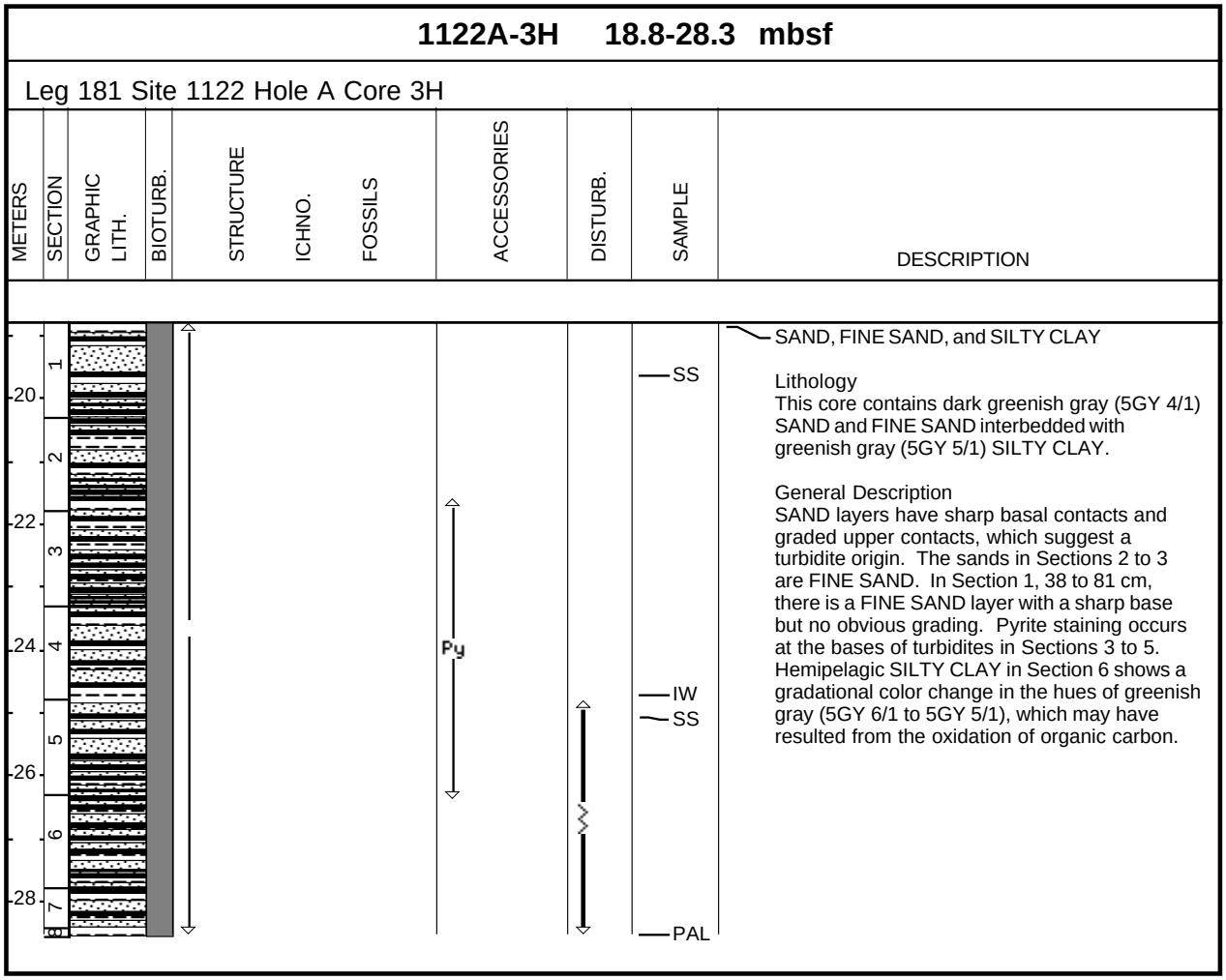
Core Photo


1122A-1H 0-9.3 mbsf
Leg 181 Site 1122 Hole A Core 1H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
Py
SS
SS
SS
SS
SS
IW
SS
SS
PAL
SILTY CLAY, SAND, SILTY SAND, and TEPHRA
Lithology
This core contains two major lithologies: greenish gray (5GY 5/1) and gray (5Y 5/1) SILTY CLAY and dark greenish gray (5GY 4/1) SAND and SILTY SAND. There is a grayish brown (2.5Y 5/2) TEPHRA layer in Section 4, 22 cm, which has a sharp top and bottom contacts and is probably the Kawakawa Tephra (~22.59 ka)
General Description
This core contains interbeds of greenish gray (5GY 5/1) and gray (5Y 5/1) SILTY CLAY with graded dark greenish gray (5GY 4/1) SILTY SAND and SAND turbidites. Basal contacts are sharp and each sandy unit is normally graded. Pyrite is present at the base of the SILTY SAND turbidite units and bioturbation is common within the clay layers.

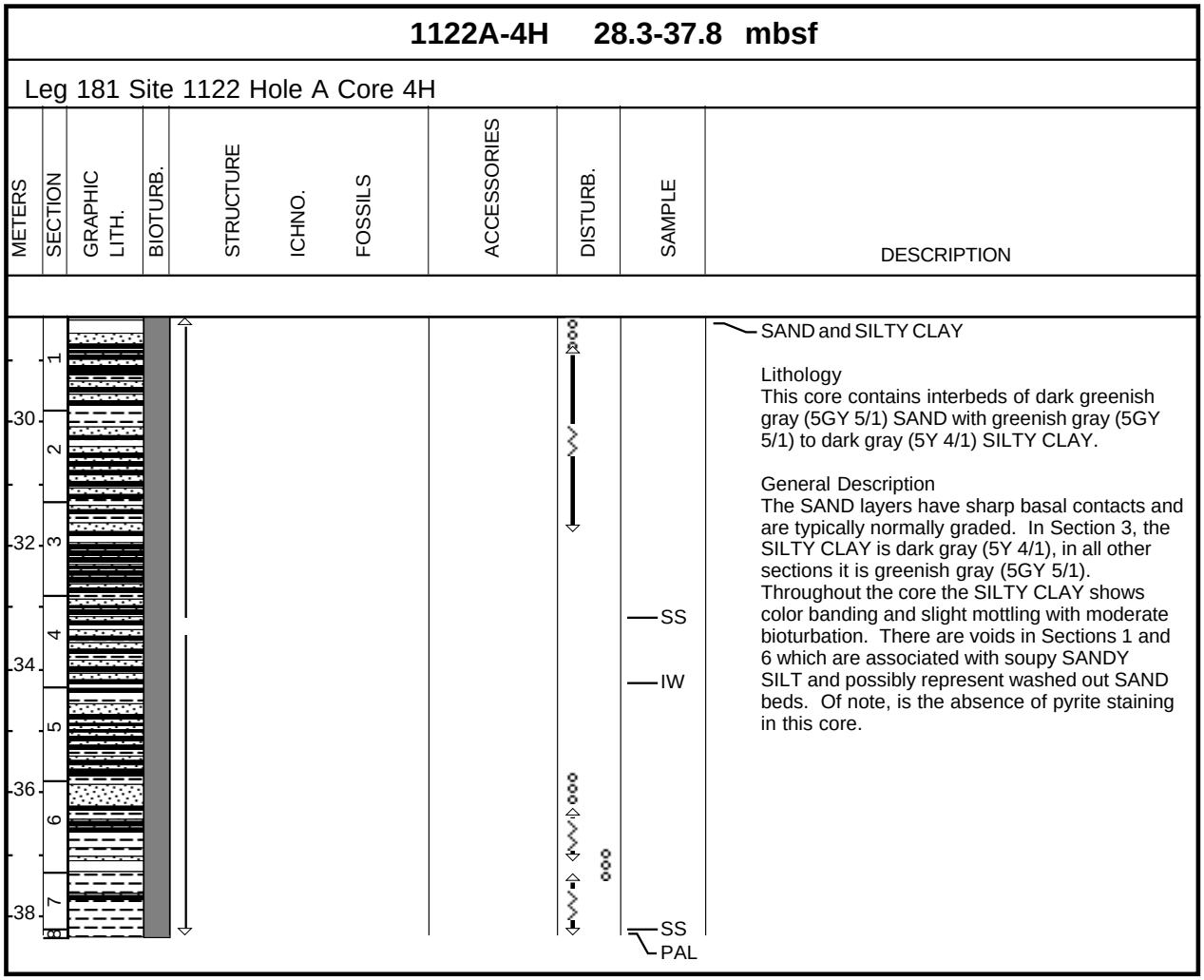
Core Photo


1122A-2H 9.3-18.8 mbsf
Leg 181 Site 1122 Hole A Core 2H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
10
12
14
16
18
1
2
3
4
5
6
7
Py
SS
IW
PAL
SAND and SILTY CLAY
Lithology
This core contains dark greenish gray (5GY 4/1) SAND and greenish gray (5GY 5/1) SILTY CLAY.
General Description
The sediment in this core is comprised of interbeds of SAND and SILTY CLAY. The SAND layers are graded normally and have sharp basal contacts. Pyrite stains are common at the base of the SAND-turbidite layers. The SAND in Section 2, 27 cm, and Section 5, 55 cm, are slightly finer-grained (silty). Slight core disturbance is present throughout. Color banding in the hemipelagic SILTY CLAY may be associated with organic carbon oxidation.

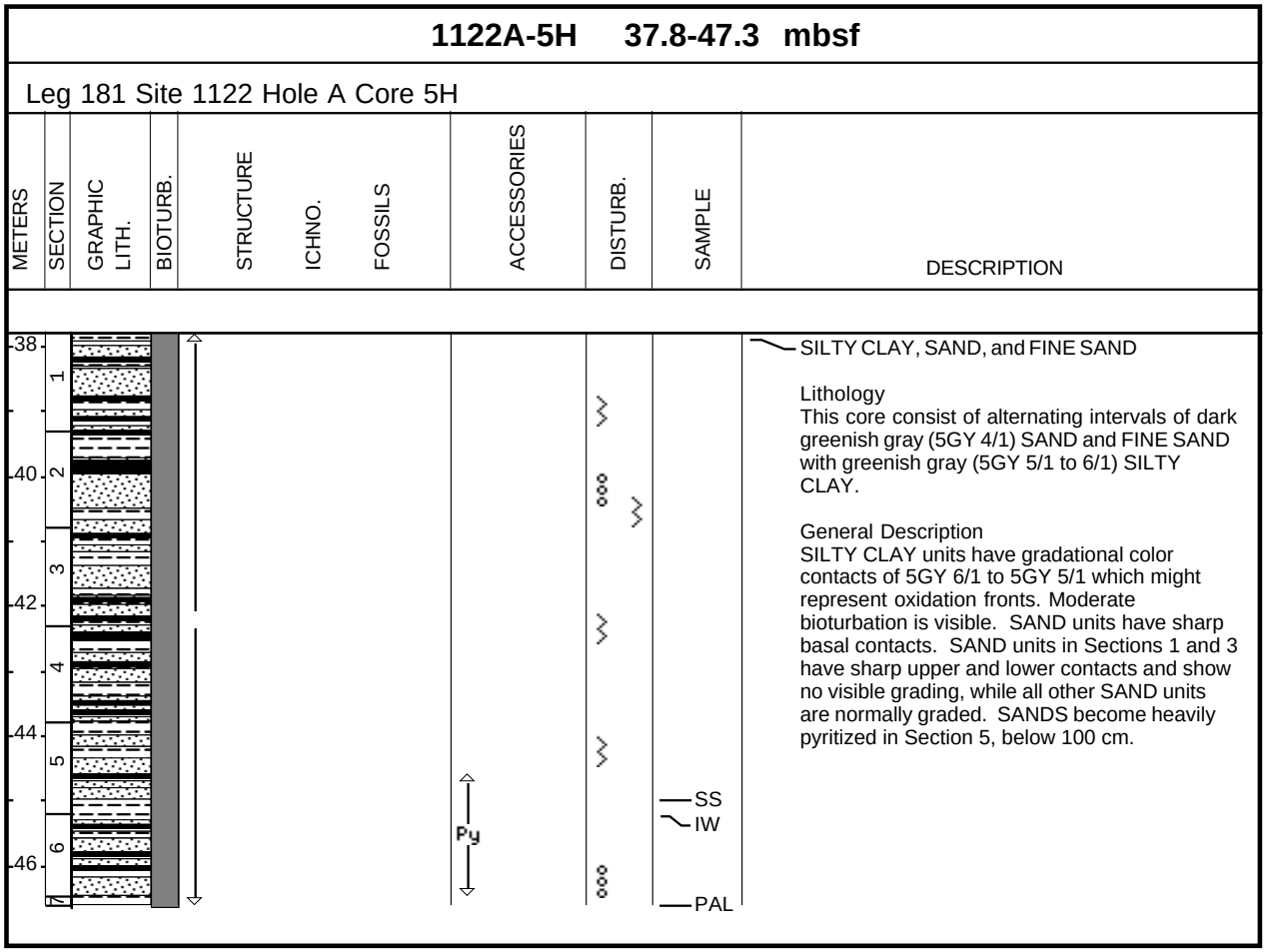
Core Photo


1122A-3H 18.8-28.3 mbsf
Leg 181 Site 1122 Hole A Core 3H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
20
22
24
26
28
1
2
3
4
5
6
7
Py
SS
IW
SS
PAL
SAND, FINE SAND, and SILTY CLAY
Lithology
This core contains dark greenish gray (5GY 4/1) SAND and FINE SAND interbedded with greenish gray (5GY 5/1) SILTY CLAY.
General Description
SAND layers have sharp basal contacts and graded upper contacts, which suggest a turbidite origin. The sands in Sections 2 to 3 are FINE SAND. In Section 1, 38 to 81 cm, there is a FINE SAND layer with a sharp base but no obvious grading. Pyrite staining occurs at the bases of turbidites in Sections 3 to 5. Hemipelagic SILTY CLAY in Section 6 shows a gradational color change in the hues of greenish gray (5GY 6/1 to 5GY 5/1), which may have resulted from the oxidation of organic carbon.

Core Photo


1122A-4H 28.3-37.8 mbsf
Leg 181 Site 1122 Hole A Core 4H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
30
32
34
36
38
1
2
3
4
5
6
7
SS
IW
SS
PAL
SAND and SILTY CLAY
Lithology
This core contains interbeds of dark greenish gray (5GY 5/1) SAND with greenish gray (5GY 5/1) to dark gray (5Y 4/1) SILTY CLAY.
General Description
The SAND layers have sharp basal contacts and are typically normally graded. In Section 3, the SILTY CLAY is dark gray (5Y 4/1), in all other sections it is greenish gray (5GY 5/1). Throughout the core the SILTY CLAY shows color banding and slight mottling with moderate bioturbation. There are voids in Sections 1 and 6 which are associated with soupy SANDY SILT and possibly represent washed out SAND beds. Of note, is the absence of pyrite staining in this core.

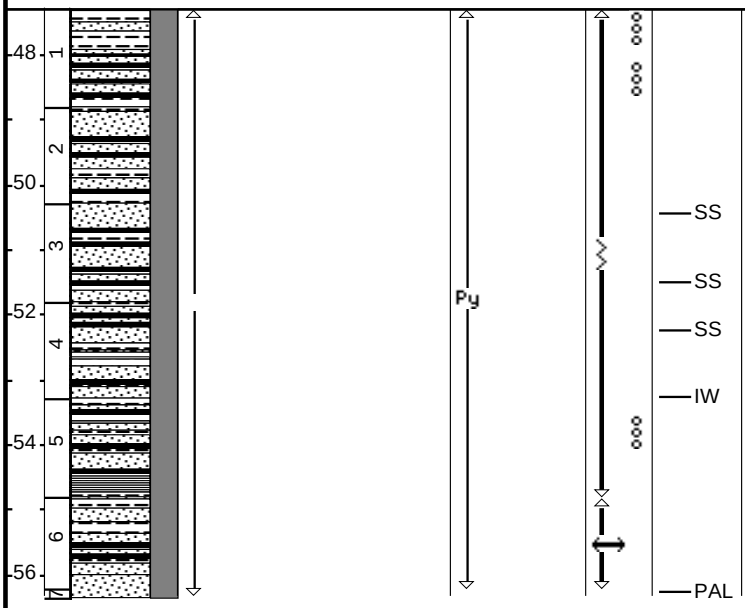
Core Photo


1122A-5H 37.8-47.3 mbsf
Leg 181 Site 1122 Hole A Core 5H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
38
40
42
44
46
1
2
3
4
5
6
Py
SS
IW
PAL
SILTY CLAY, SAND, and FINE SAND
Lithology
This core consist of alternating intervals of dark greenish gray (5GY 4/1) SAND and FINE SAND with greenish gray (5GY 5/1 to 6/1) SILTY CLAY.
General Description
SILTY CLAY units have gradational color contacts of 5GY 6/1 to 5GY 5/1 which might represent oxidation fronts. Moderate bioturbation is visible. SAND units have sharp basal contacts. SAND units in Sections 1 and 3 have sharp upper and lower contacts and show no visible grading, while all other SAND units are normally graded. SANDS become heavily pyritized in Section 5, below 100 cm.

Core Photo

1122A-6H 47.3-56.8 mbsf

Leg 181 Site 1122 Hole A Core 6H



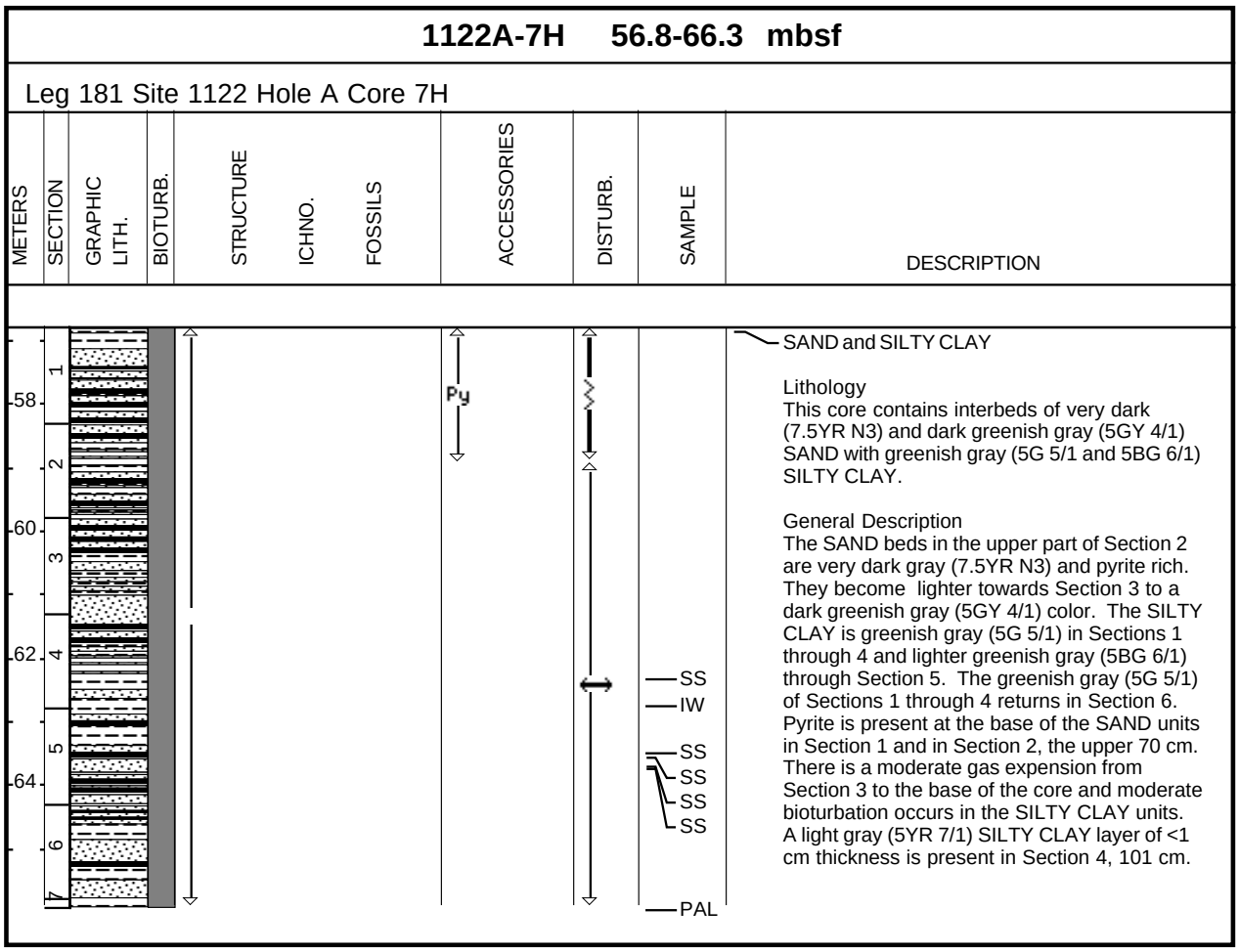
DESCRIPTION

SAND and SILTY SAND

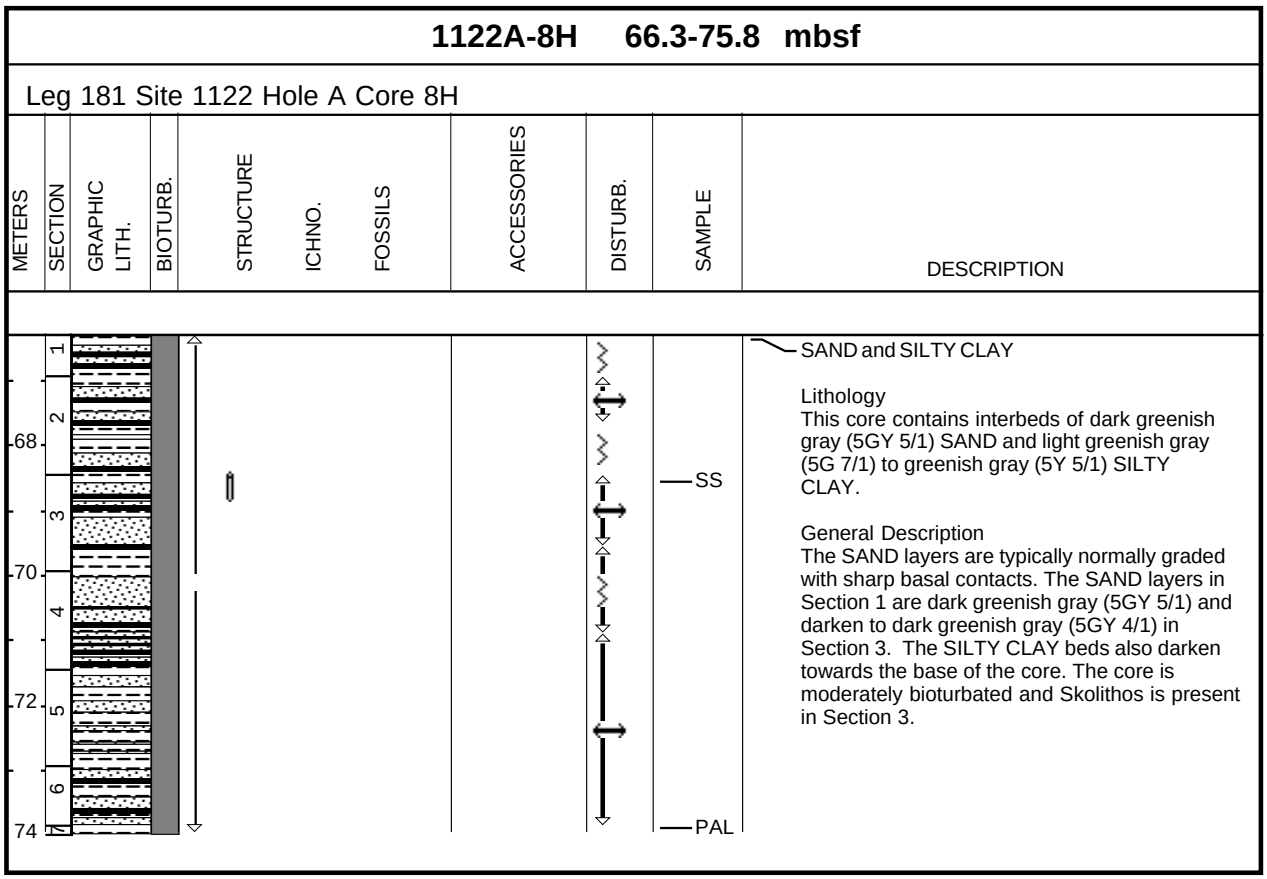
Lithology
This core contains interbeds of dark greenish gray (5BG 4/1) SAND with greenish gray (5GY 5/1) SILTY CLAY.

General Description
The dark greenish gray (5BG 4/1) SAND layers show variable water content and consolidation. They are normally graded and have typically sharp or erosional bases. The greenish gray (5GY 5/1) SILTY CLAY units are moderately bioturbated. Pyrite is present throughout the SILTY CLAY beds and between the contacts with the sand units.

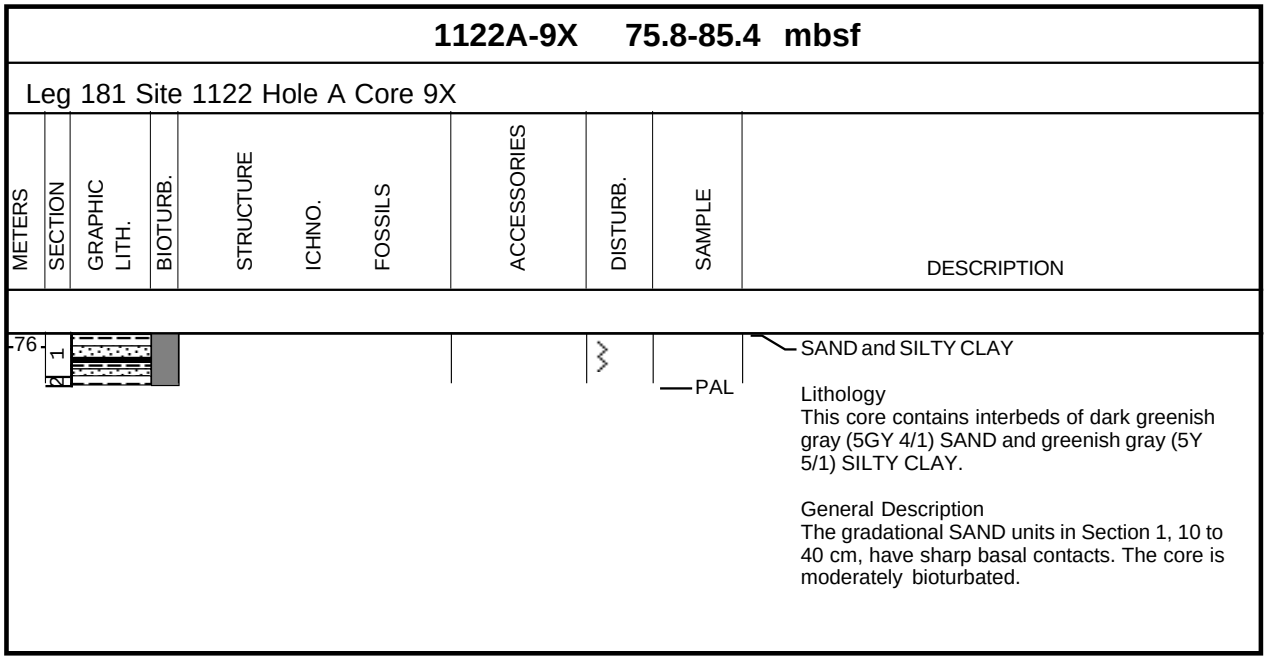
Core Photo


1122A-7H 56.8-66.3 mbsf
Leg 181 Site 1122 Hole A Core 7H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
58
60
62
64
1
2
3
4
5
6
7
Py
SS
IW
SS
SS
SS
SS
PAL
SAND and SILTY CLAY
Lithology
This core contains interbeds of very dark (7.5YR N3) and dark greenish gray (5GY 4/1) SAND with greenish gray (5G 5/1 and 5BG 6/1) SILTY CLAY.
General Description
The SAND beds in the upper part of Section 2 are very dark gray (7.5YR N3) and pyrite rich. They become lighter towards Section 3 to a dark greenish gray (5GY 4/1) color. The SILTY CLAY is greenish gray (5G 5/1) in Sections 1 through 4 and lighter greenish gray (5BG 6/1) through Section 5. The greenish gray (5G 5/1) of Sections 1 through 4 returns in Section 6. Pyrite is present at the base of the SAND units in Section 1 and in Section 2, the upper 70 cm. There is a moderate gas expension from Section 3 to the base of the core and moderate bioturbation occurs in the SILTY CLAY units. A light gray (5YR 7/1) SILTY CLAY layer of <1 cm thickness is present in Section 4, 101 cm.

Core Photo


1122A-8H 66.3-75.8 mbsf
Leg 181 Site 1122 Hole A Core 8H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
68
70
72
74
1
2
3
4
5
6
7
SS
PAL
SAND and SILTY CLAY
Lithology
This core contains interbeds of dark greenish gray (5GY 5/1) SAND and light greenish gray (5G 7/1) to greenish gray (5Y 5/1) SILTY CLAY.
General Description
The SAND layers are typically normally graded with sharp basal contacts. The SAND layers in Section 1 are dark greenish gray (5GY 5/1) and darken to dark greenish gray (5GY 4/1) in Section 3. The SILTY CLAY beds also darken towards the base of the core. The core is moderately bioturbated and Skolithos is present in Section 3.

Core Photo


1122A-9X 75.8-85.4 mbsf
Leg 181 Site 1122 Hole A Core 9X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
76
1
2
PAL
SAND and SILTY CLAY
Lithology
This core contains interbeds of dark greenish gray (5GY 4/1) SAND and greenish gray (5Y 5/1) SILTY CLAY.
General Description
The gradational SAND units in Section 1, 10 to 40 cm, have sharp basal contacts. The core is moderately bioturbated.

Core Photo

1122A-10X 85.4-95.0 mbsf

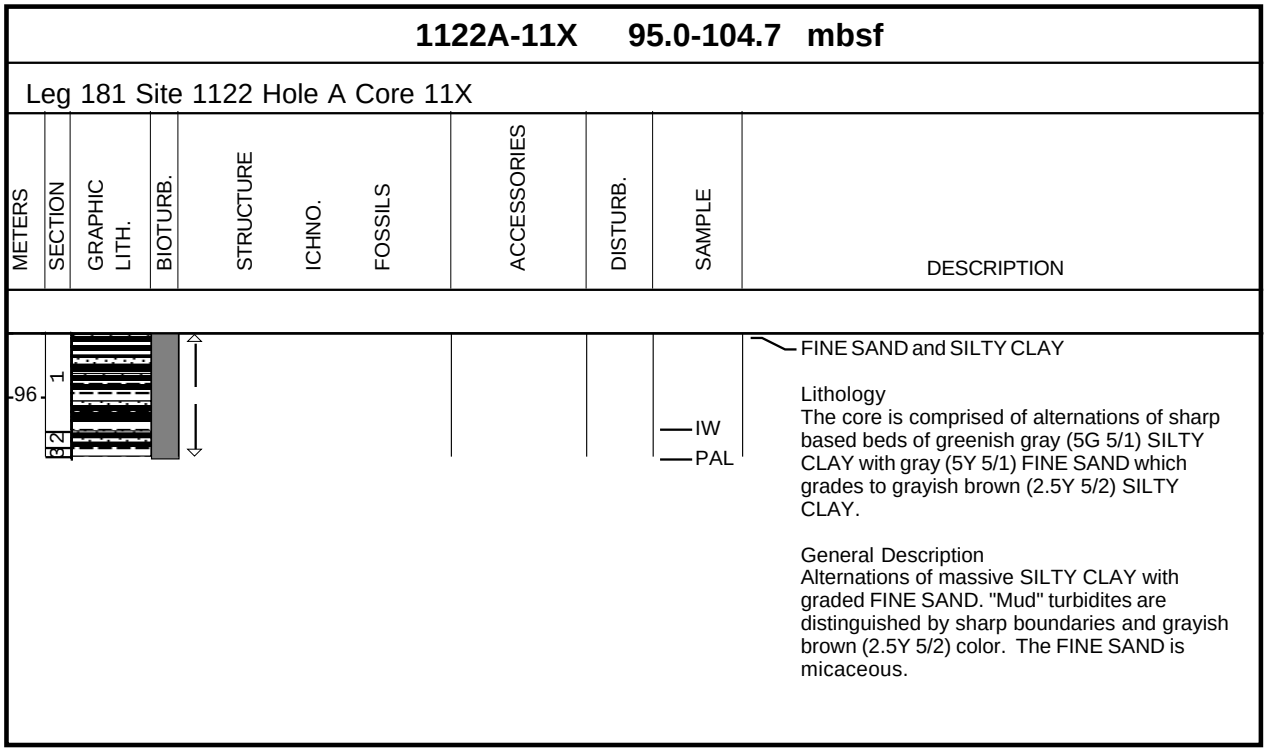
Leg 181 Site 1122 Hole A Core 10X

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
	1								PAL	SAND and SILTY CLAY

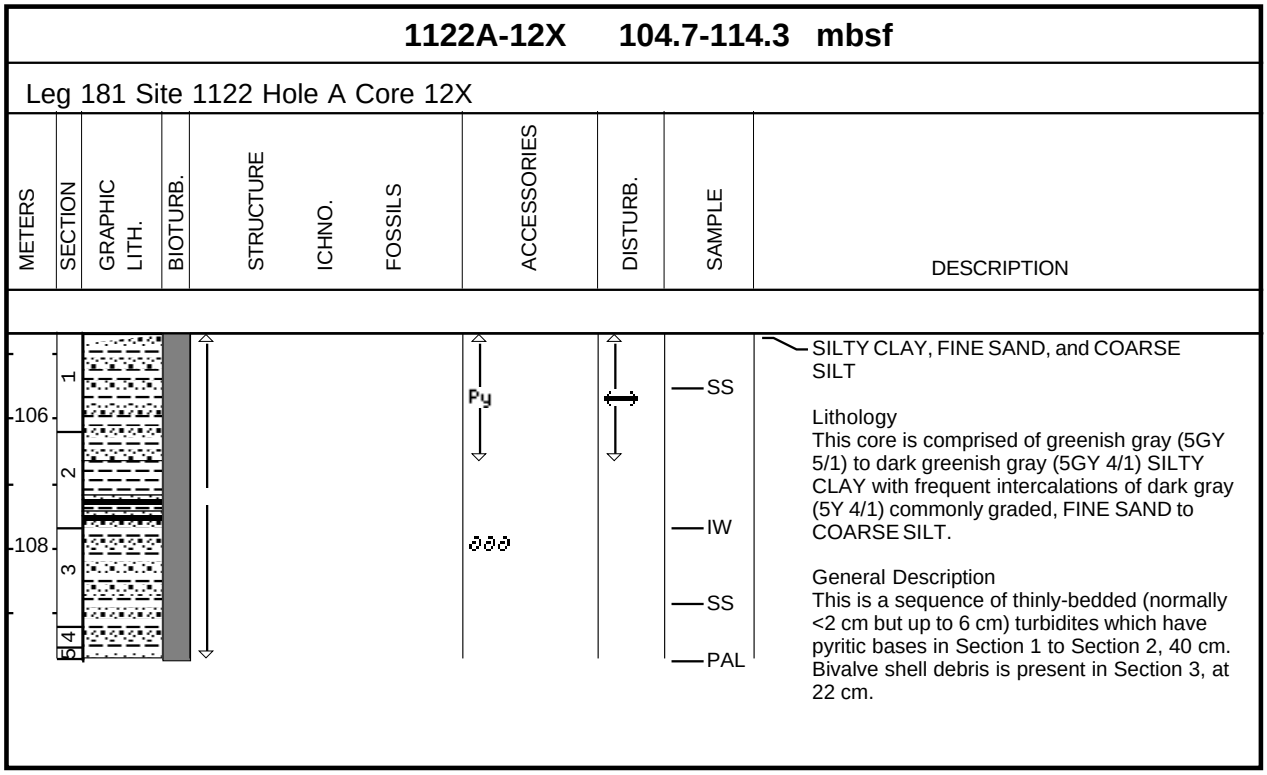
Lithology
This core contains interbeds of dark greenish gray (5GY 4/1) SAND and greenish gray (5GY 5/1) SILTY CLAY.

General Description
This core contains only one dark greenish gray (5GY 4/1) SAND interbed within greenish gray (5GY 5/1) SILTY CLAY.

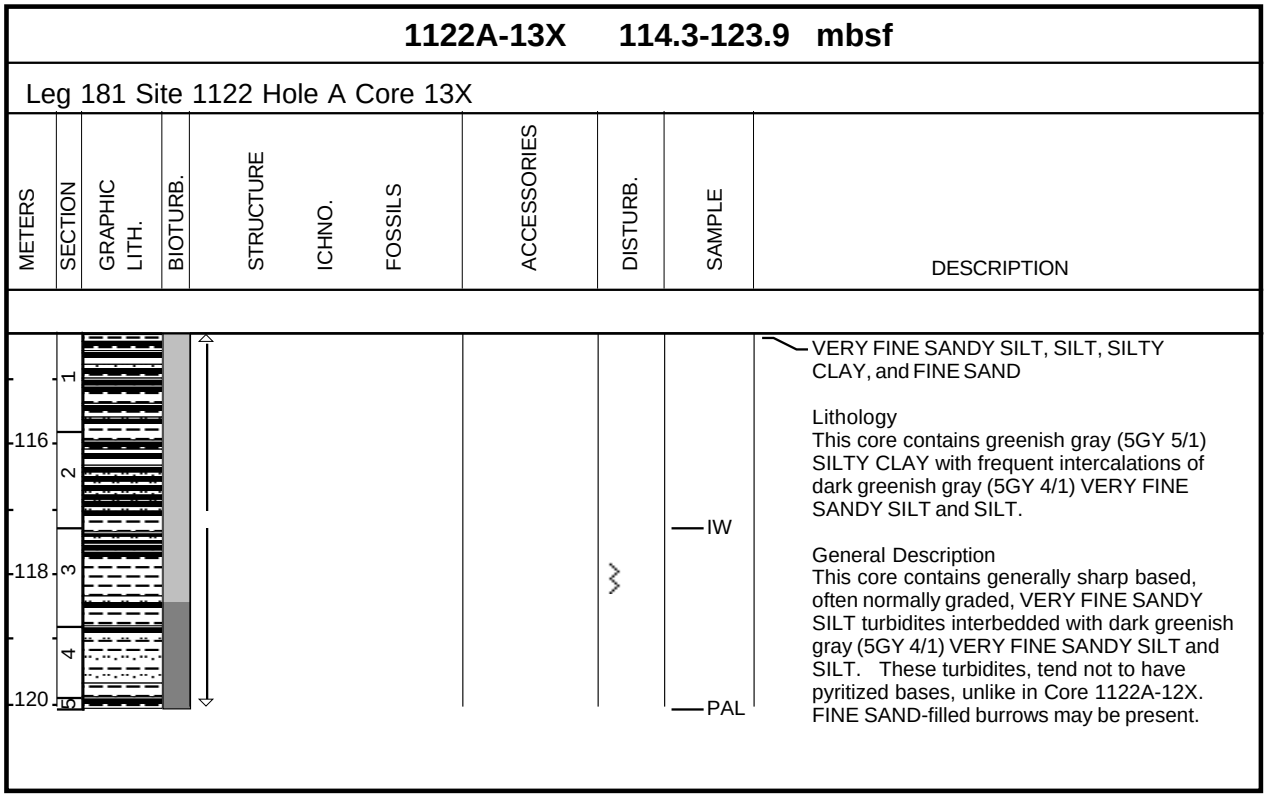
Core Photo


1122A-11X 95.0-104.7 mbsf
Leg 181 Site 1122 Hole A Core 11X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
96
1
2
3
IW
PAL
FINE SAND and SILTY CLAY
Lithology
The core is comprised of alternations of sharp based beds of greenish gray (5G 5/1) SILTY CLAY with gray (5Y 5/1) FINE SAND which grades to grayish brown (2.5Y 5/2) SILTY CLAY.
General Description
Alternations of massive SILTY CLAY with graded FINE SAND. "Mud" turbidites are distinguished by sharp boundaries and grayish brown (2.5Y 5/2) color. The FINE SAND is micaceous.

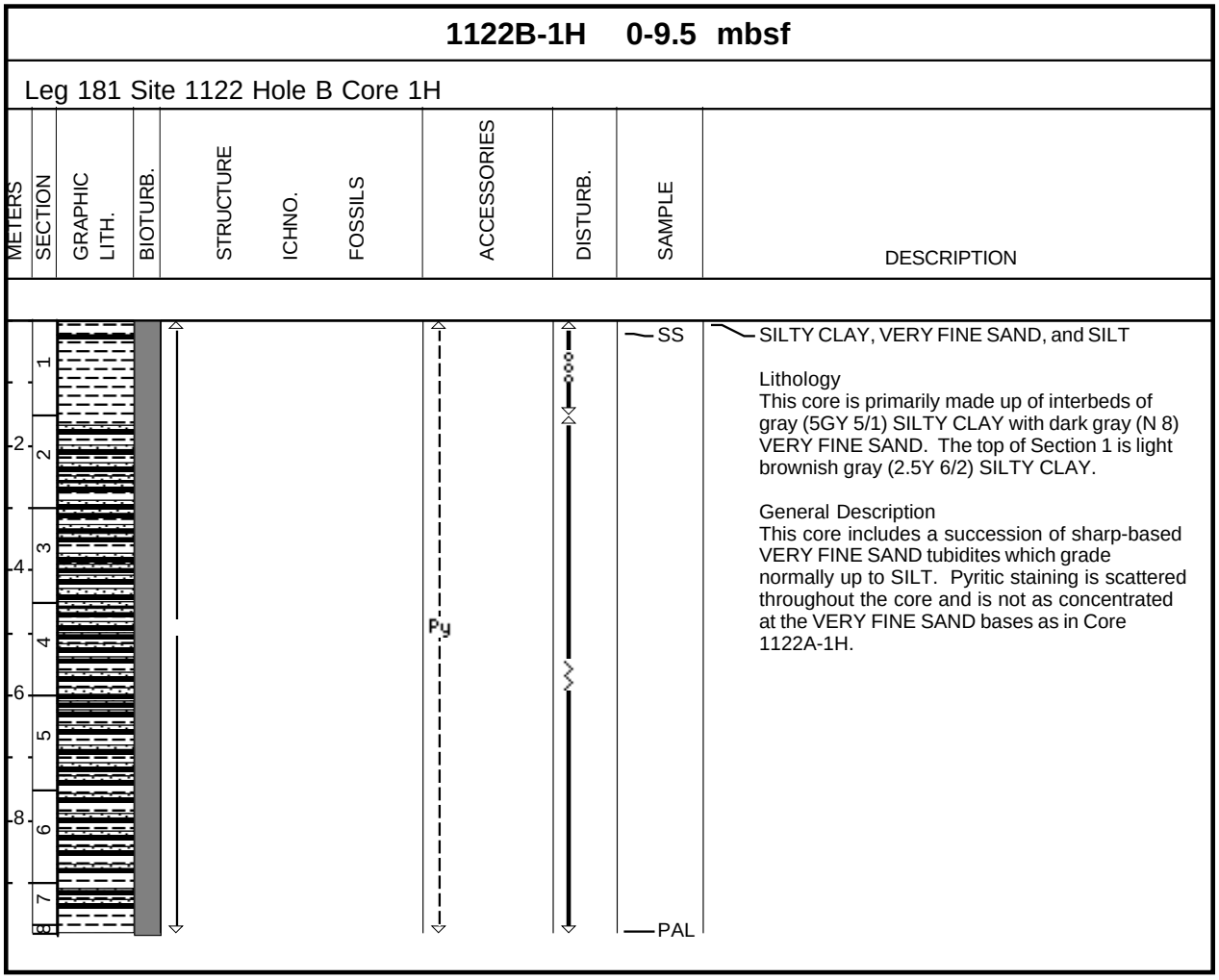
Core Photo


1122A-12X 104.7-114.3 mbsf
Leg 181 Site 1122 Hole A Core 12X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
106
108
1
2
3
4
Py
SS
IW
SS
PAL
SILTY CLAY, FINE SAND, and COARSE SILT
Lithology
This core is comprised of greenish gray (5GY 5/1) to dark greenish gray (5GY 4/1) SILTY CLAY with frequent intercalations of dark gray (5Y 4/1) commonly graded, FINE SAND to COARSE SILT.
General Description
This is a sequence of thinly-bedded (normally <2 cm but up to 6 cm) turbidites which have pyritic bases in Section 1 to Section 2, 40 cm. Bivalve shell debris is present in Section 3, at 22 cm.

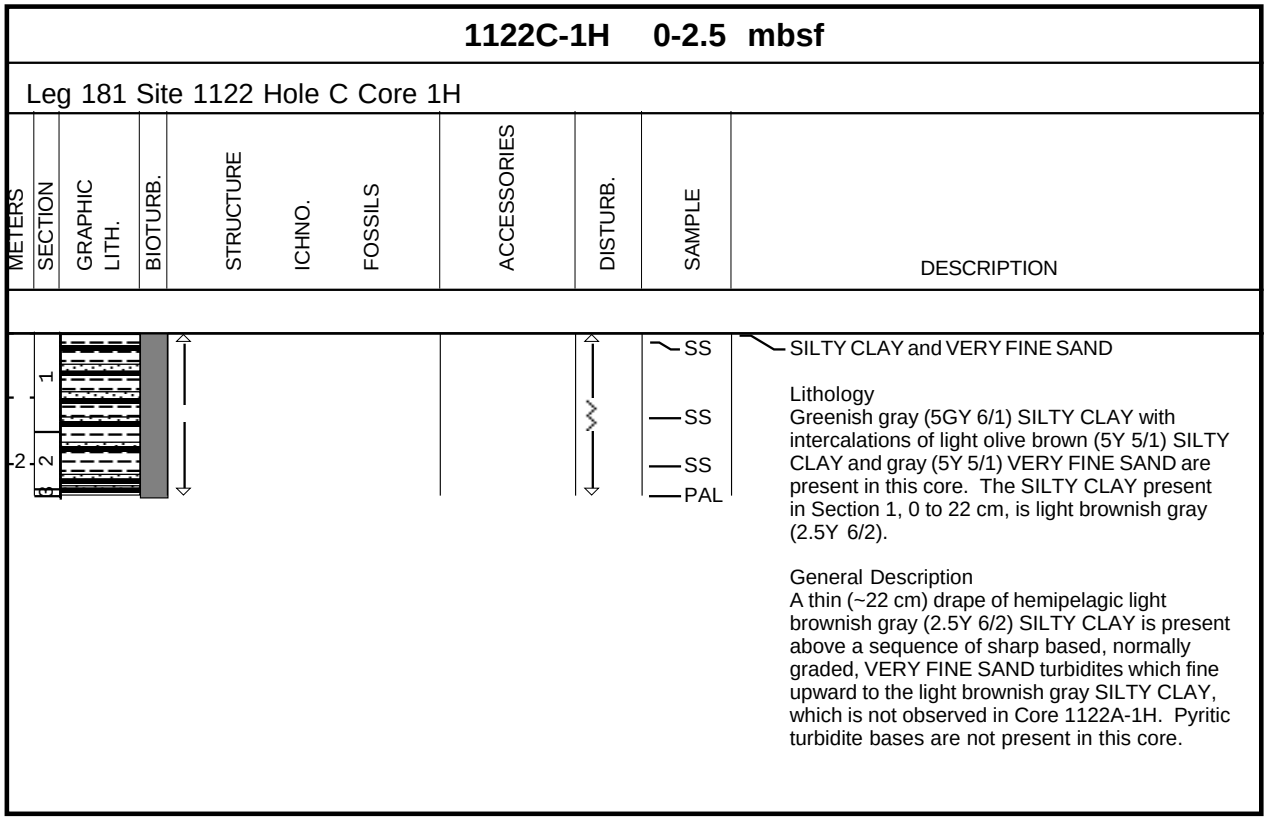
Core Photo


1122A-13X 114.3-123.9 mbsf
Leg 181 Site 1122 Hole A Core 13X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
116
118
120
1
2
3
4
5
IW
PAL
VERY FINE SANDY SILT, SILT, SILTY CLAY, and FINE SAND
Lithology
This core contains greenish gray (5GY 5/1) SILTY CLAY with frequent intercalations of dark greenish gray (5GY 4/1) VERY FINE SANDY SILT and SILT.
General Description
This core contains generally sharp based, often normally graded, VERY FINE SANDY SILT turbidites interbedded with dark greenish gray (5GY 4/1) VERY FINE SANDY SILT and SILT. These turbidites, tend not to have pyritized bases, unlike in Core 1122A-12X. FINE SAND-filled burrows may be present.

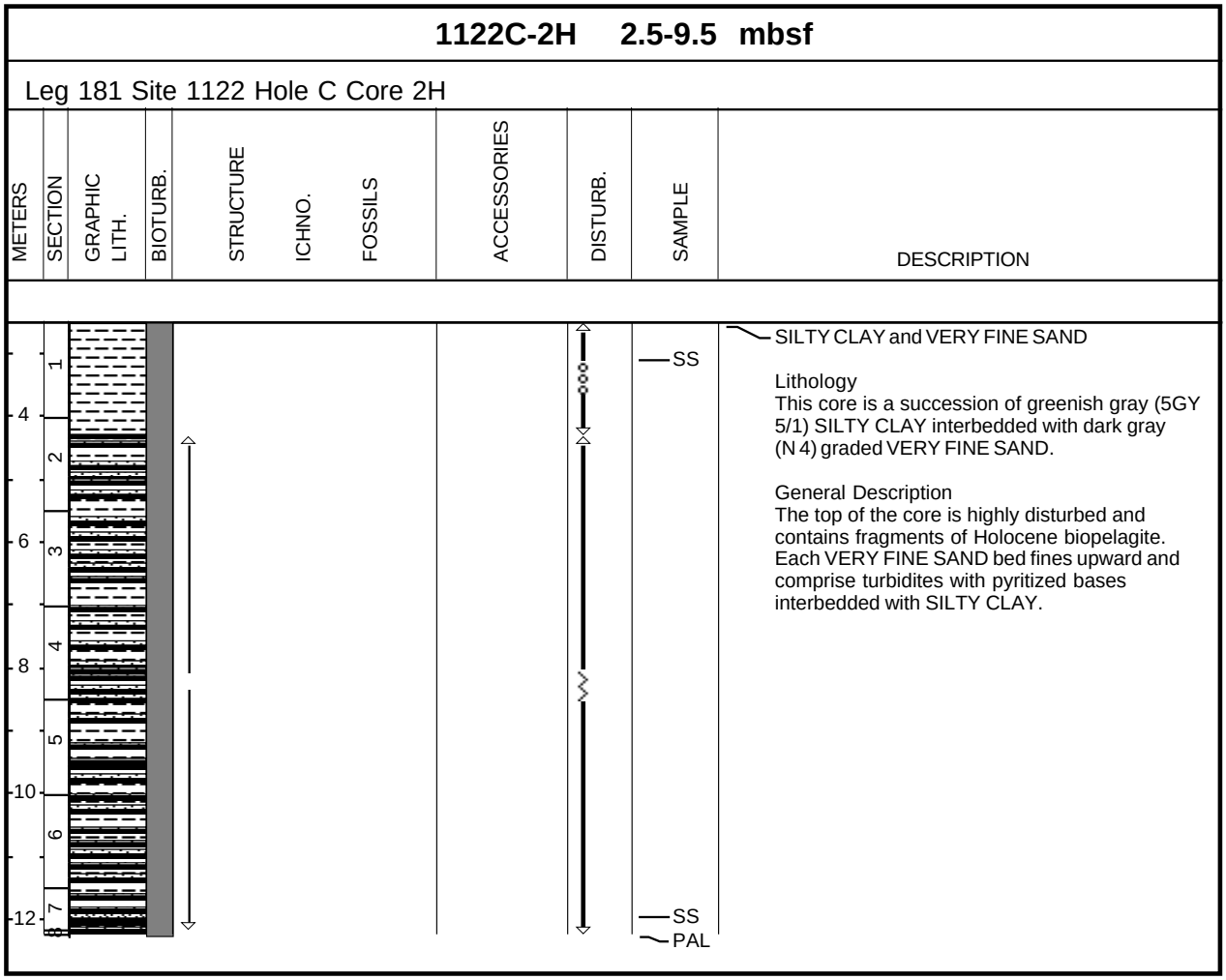
Core Photo


1122B-1H 0-9.5 mbsf
Leg 181 Site 1122 Hole B Core 1H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
Py
SS
PAL
SILTY CLAY, VERY FINE SAND, and SILT
Lithology
This core is primarily made up of interbeds of gray (5GY 5/1) SILTY CLAY with dark gray (N 8) VERY FINE SAND. The top of Section 1 is light brownish gray (2.5Y 6/2) SILTY CLAY.
General Description
This core includes a succession of sharp-based VERY FINE SAND tubidites which grade normally up to SILT. Pyritic staining is scattered throughout the core and is not as concentrated at the VERY FINE SAND bases as in Core 1122A-1H.

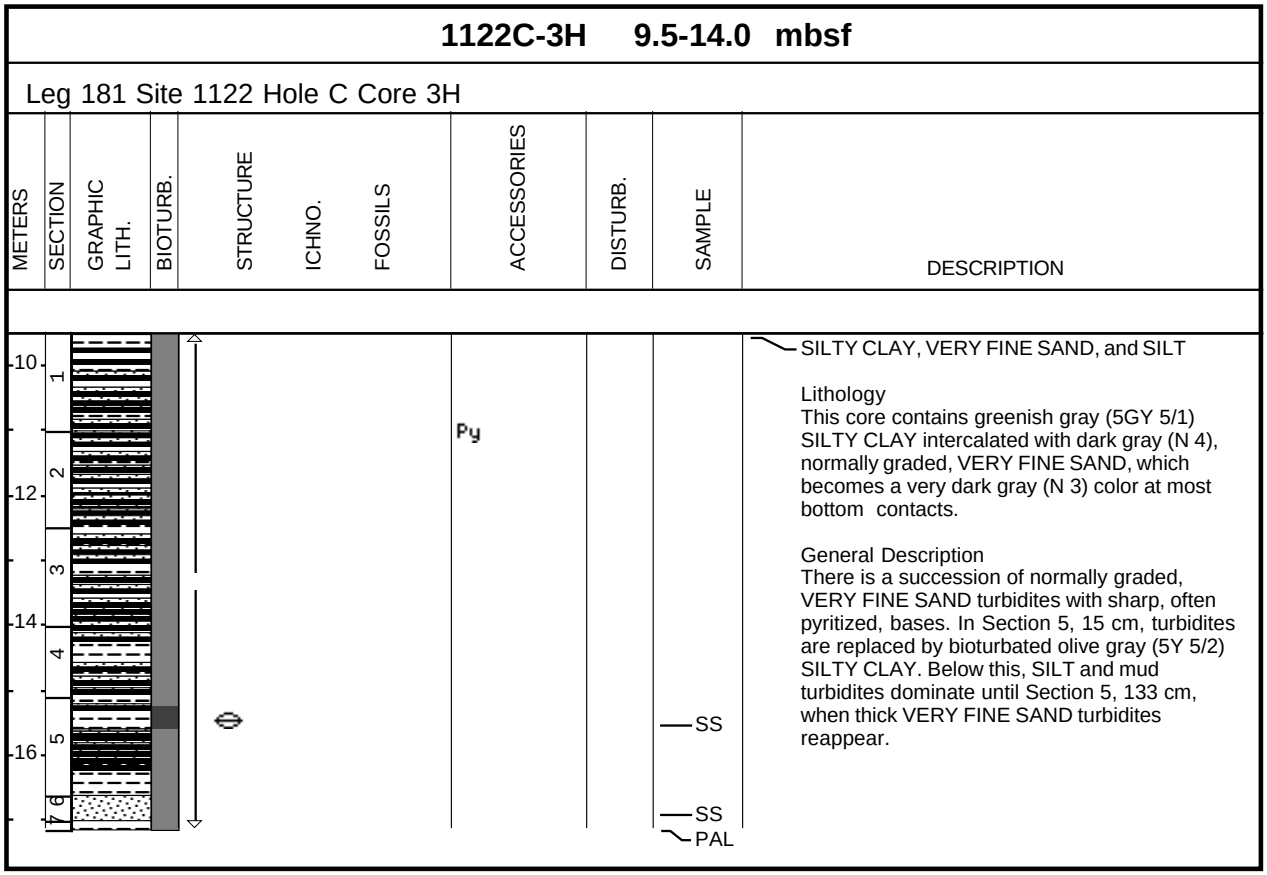
Core Photo


1122C-1H 0-2.5 mbsf
Leg 181 Site 1122 Hole C Core 1H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
1
2
3
2
SS
SS
SS
PAL
SILTY CLAY and VERY FINE SAND
Lithology
Greenish gray (5GY 6/1) SILTY CLAY with intercalations of light olive brown (5Y 5/1) SILTY CLAY and gray (5Y 5/1) VERY FINE SAND are present in this core. The SILTY CLAY present in Section 1, 0 to 22 cm, is light brownish gray (2.5Y 6/2).
General Description
A thin (~22 cm) drape of hemipelagic light brownish gray (2.5Y 6/2) SILTY CLAY is present above a sequence of sharp based, normally graded, VERY FINE SAND turbidites which fine upward to the light brownish gray SILTY CLAY, which is not observed in Core 1122A-1H. Pyritic turbidite bases are not present in this core.

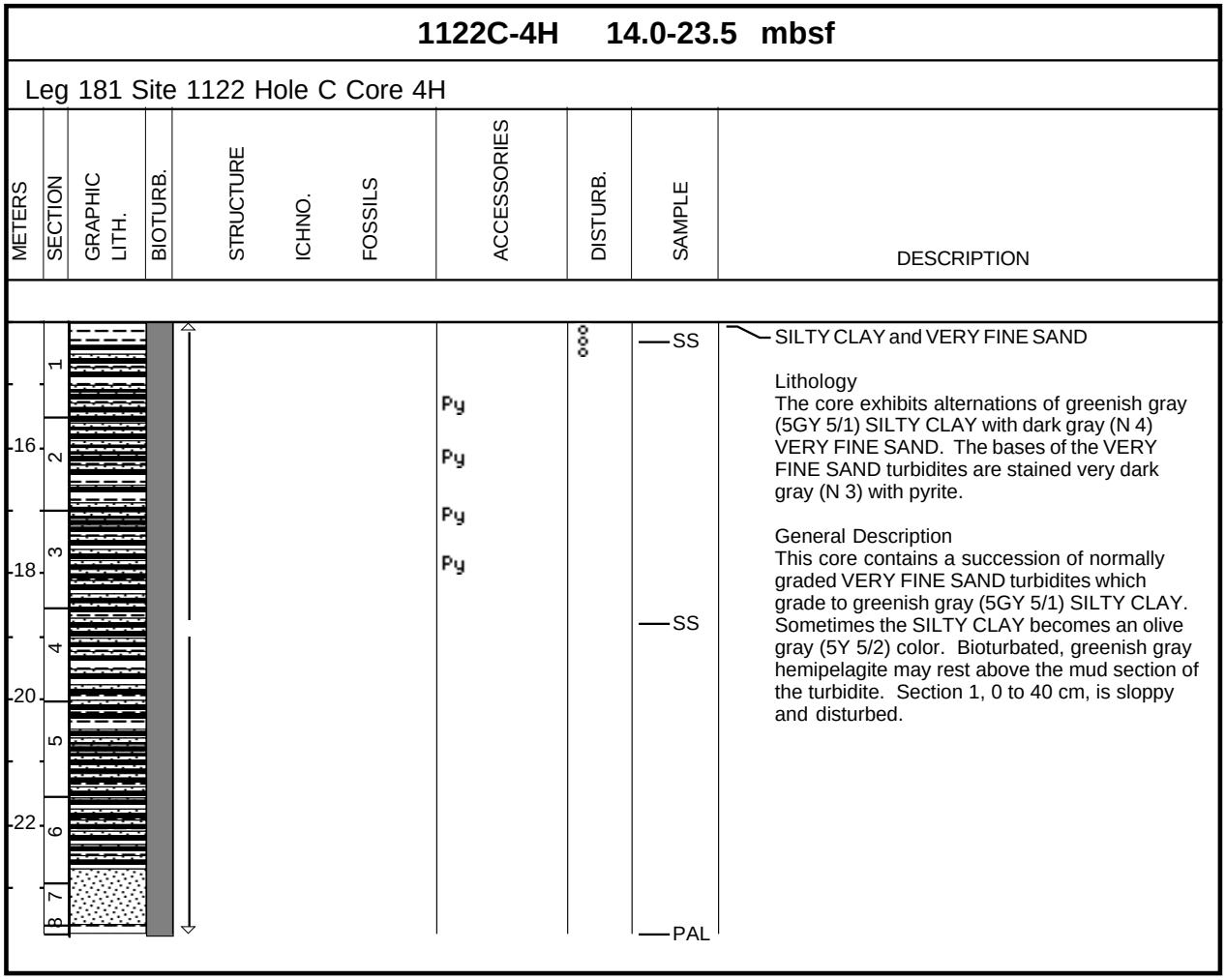
Core Photo


1122C-2H 2.5-9.5 mbsf
Leg 181 Site 1122 Hole C Core 2H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
4
6
8
10
12
1
2
3
4
5
6
7
SS
SS
PAL
SILTY CLAY and VERY FINE SAND
Lithology
This core is a succession of greenish gray (5GY 5/1) SILTY CLAY interbedded with dark gray (N 4) graded VERY FINE SAND.
General Description
The top of the core is highly disturbed and contains fragments of Holocene biopelagite. Each VERY FINE SAND bed fines upward and comprise turbidites with pyritized bases interbedded with SILTY CLAY.

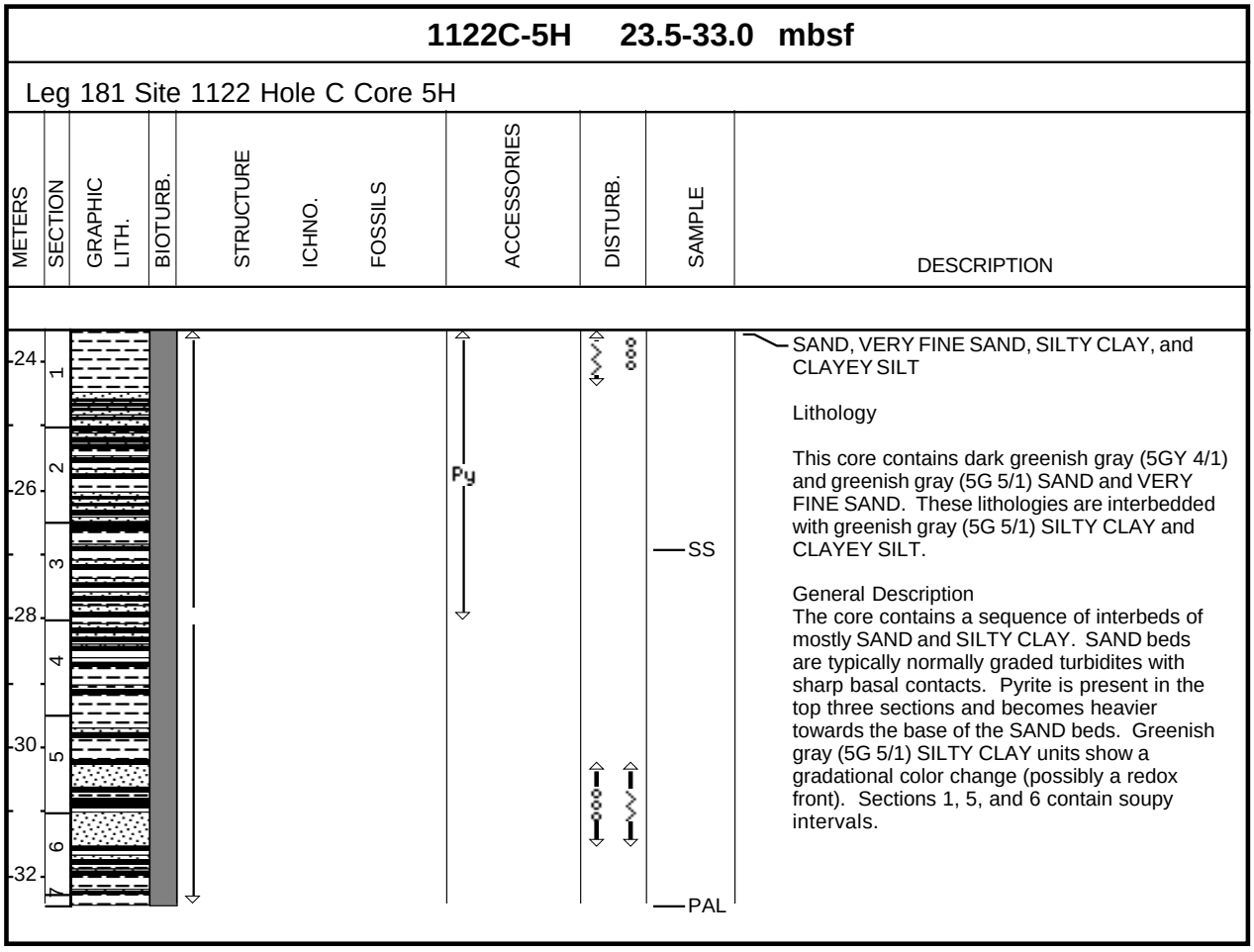
Core Photo


1122C-3H 9.5-14.0 mbsf
Leg 181 Site 1122 Hole C Core 3H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
10
12
14
16
1
2
3
4
5
6
7
Py
SS
SS
PAL
SILTY CLAY, VERY FINE SAND, and SILT
Lithology
This core contains greenish gray (5GY 5/1) SILTY CLAY intercalated with dark gray (N 4), normally graded, VERY FINE SAND, which becomes a very dark gray (N 3) color at most bottom contacts.
General Description
There is a succession of normally graded, VERY FINE SAND turbidites with sharp, often pyritized, bases. In Section 5, 15 cm, turbidites are replaced by bioturbated olive gray (5Y 5/2) SILTY CLAY. Below this, SILT and mud turbidites dominate until Section 5, 133 cm, when thick VERY FINE SAND turbidites reappear.

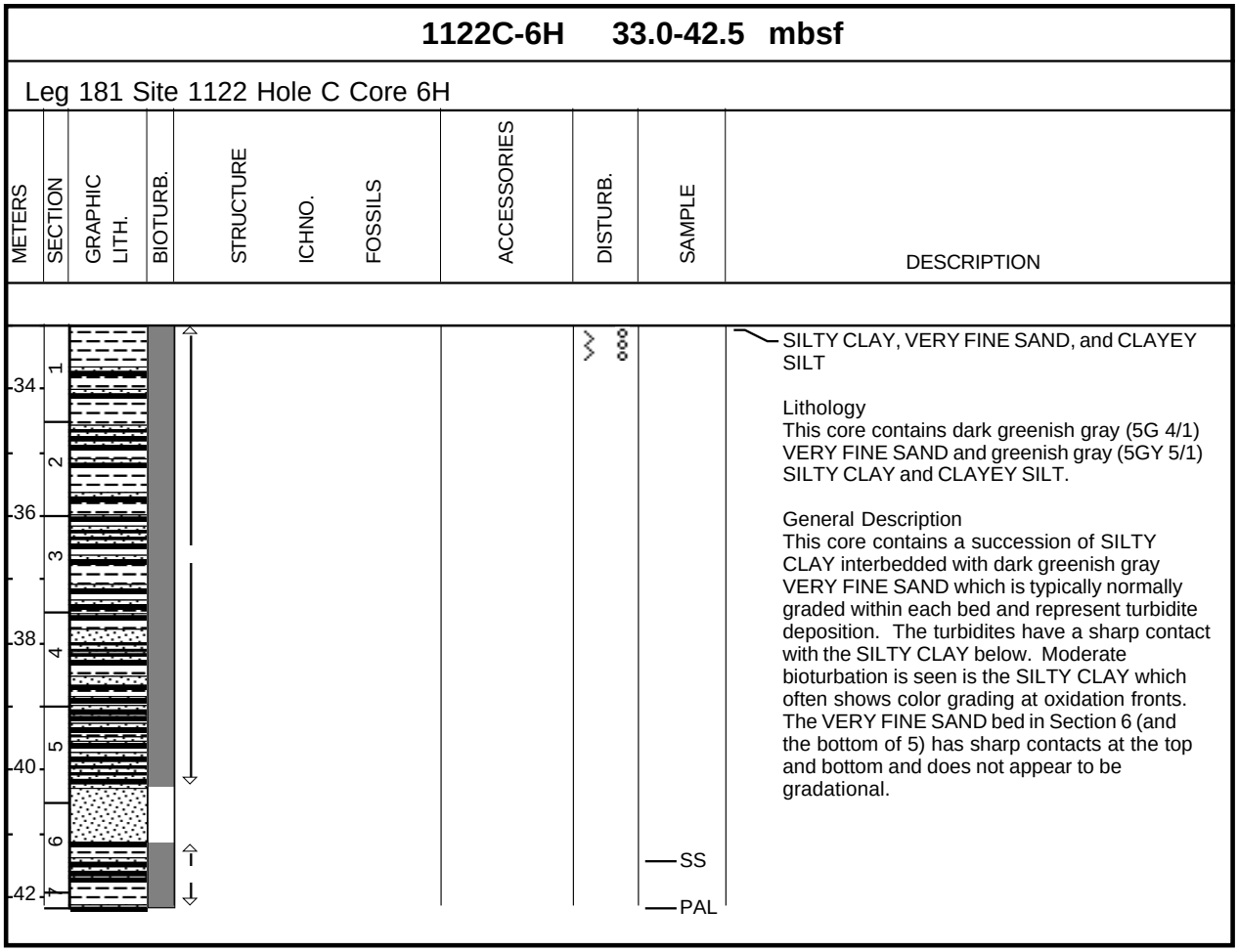
Core Photo


1122C-4H 14.0-23.5 mbsf
Leg 181 Site 1122 Hole C Core 4H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
16
18
20
22
1
2
3
4
5
6
7
CC
Py
Py
Py
Py
SS
SS
PAL
SILTY CLAY and VERY FINE SAND
Lithology
The core exhibits alternations of greenish gray (5GY 5/1) SILTY CLAY with dark gray (N 4) VERY FINE SAND. The bases of the VERY FINE SAND turbidites are stained very dark gray (N 3) with pyrite.
General Description
This core contains a succession of normally graded VERY FINE SAND turbidites which grade to greenish gray (5GY 5/1) SILTY CLAY. Sometimes the SILTY CLAY becomes an olive gray (5Y 5/2) color. Bioturbated, greenish gray hemipelagite may rest above the mud section of the turbidite. Section 1, 0 to 40 cm, is sloppy and disturbed.

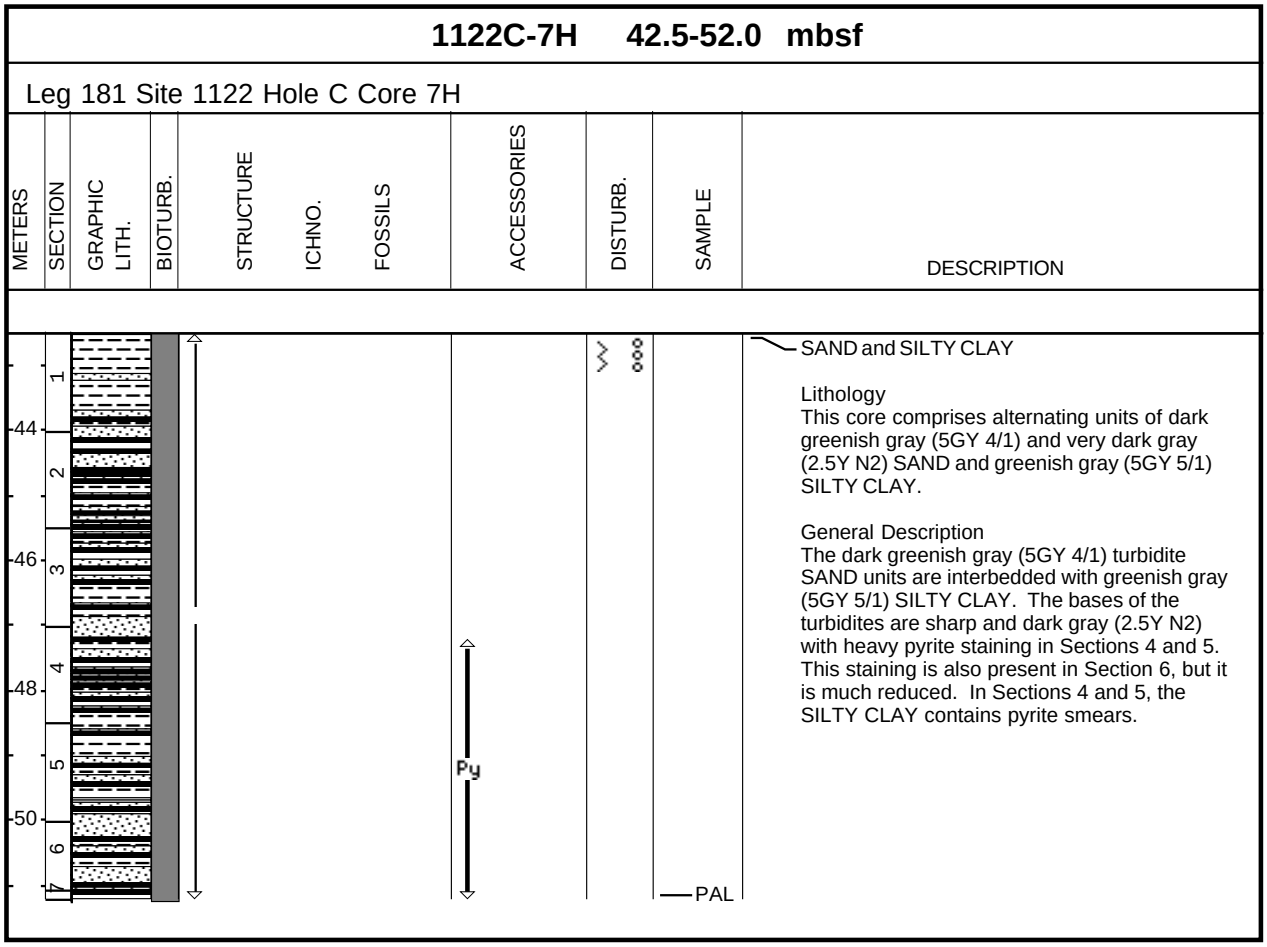
Core Photo


1122C-5H 23.5-33.0 mbsf
Leg 181 Site 1122 Hole C Core 5H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
24
26
28
30
32
1
2
3
4
5
6
7
Py
SS
PAL
SAND, VERY FINE SAND, SILTY CLAY, and CLAYEY SILT
Lithology
This core contains dark greenish gray (5GY 4/1) and greenish gray (5G 5/1) SAND and VERY FINE SAND. These lithologies are interbedded with greenish gray (5G 5/1) SILTY CLAY and CLAYEY SILT.
General Description
The core contains a sequence of interbeds of mostly SAND and SILTY CLAY. SAND beds are typically normally graded turbidites with sharp basal contacts. Pyrite is present in the top three sections and becomes heavier towards the base of the SAND beds. Greenish gray (5G 5/1) SILTY CLAY units show a gradational color change (possibly a redox front). Sections 1, 5, and 6 contain soupy intervals.

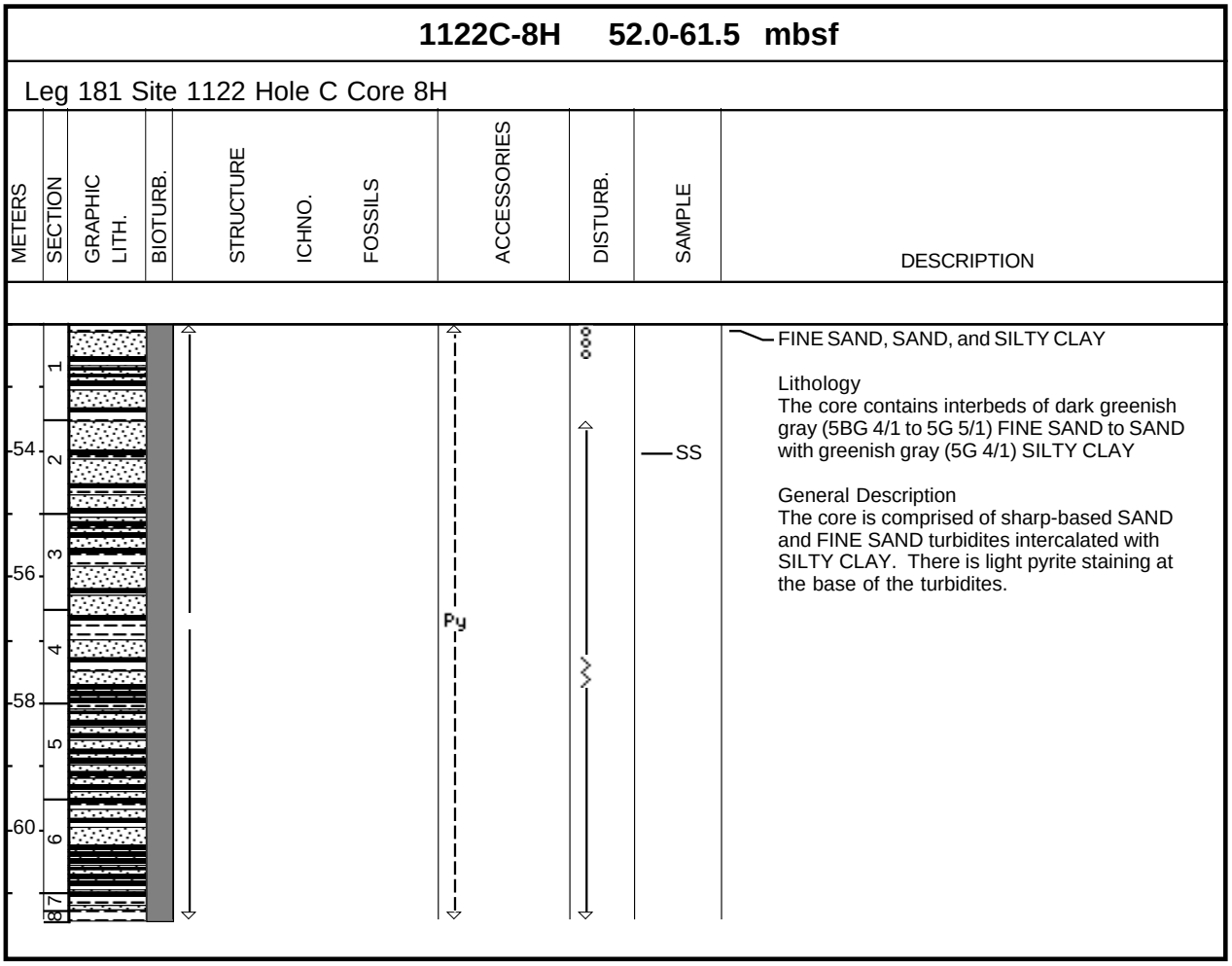
Core Photo


1122C-6H 33.0-42.5 mbsf
Leg 181 Site 1122 Hole C Core 6H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
34
36
38
40
42
1
2
3
4
5
6
7
SS
PAL
SILTY CLAY, VERY FINE SAND, and CLAYEY SILT
Lithology
This core contains dark greenish gray (5G 4/1) VERY FINE SAND and greenish gray (5GY 5/1) SILTY CLAY and CLAYEY SILT.
General Description
This core contains a succession of SILTY CLAY interbedded with dark greenish gray VERY FINE SAND which is typically normally graded within each bed and represent turbidite deposition. The turbidites have a sharp contact with the SILTY CLAY below. Moderate bioturbation is seen is the SILTY CLAY which often shows color grading at oxidation fronts. The VERY FINE SAND bed in Section 6 (and the bottom of 5) has sharp contacts at the top and bottom and does not appear to be gradational.

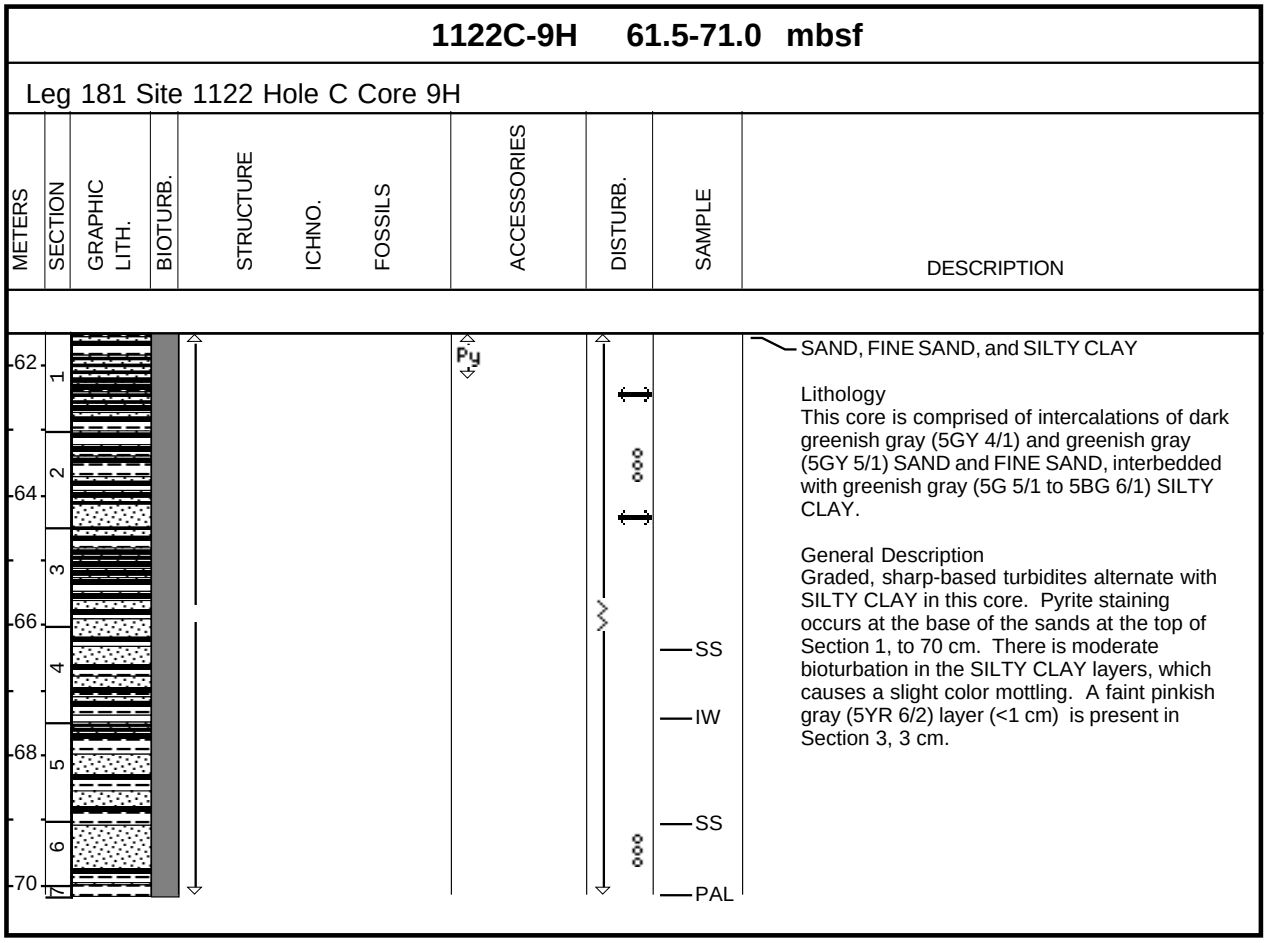
Core Photo


1122C-7H 42.5-52.0 mbsf
Leg 181 Site 1122 Hole C Core 7H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
44
46
48
50
1
2
3
4
5
6
7
Py
PAL
SAND and SILTY CLAY
Lithology
This core comprises alternating units of dark greenish gray (5GY 4/1) and very dark gray (2.5Y N2) SAND and greenish gray (5GY 5/1) SILTY CLAY.
General Description
The dark greenish gray (5GY 4/1) turbidite SAND units are interbedded with greenish gray (5GY 5/1) SILTY CLAY. The bases of the turbidites are sharp and dark gray (2.5Y N2) with heavy pyrite staining in Sections 4 and 5. This staining is also present in Section 6, but it is much reduced. In Sections 4 and 5, the SILTY CLAY contains pyrite smears.

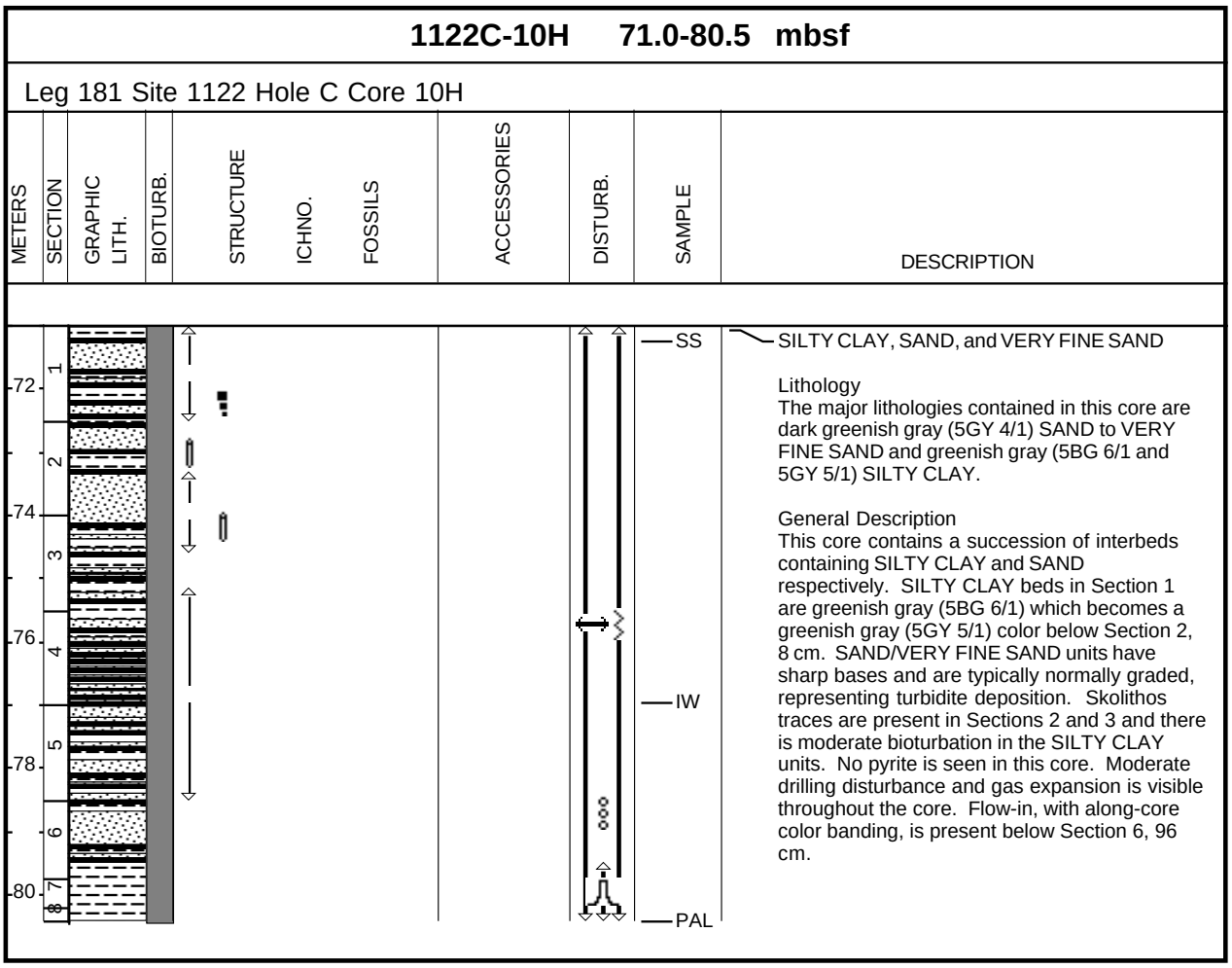
Core Photo


1122C-8H 52.0-61.5 mbsf
Leg 181 Site 1122 Hole C Core 8H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
54
56
58
60
1
2
3
4
5
6
7
Py
SS
FINE SAND, SAND, and SILTY CLAY
Lithology
The core contains interbeds of dark greenish gray (5BG 4/1 to 5G 5/1) FINE SAND to SAND with greenish gray (5G 4/1) SILTY CLAY
General Description
The core is comprised of sharp-based SAND and FINE SAND turbidites intercalated with SILTY CLAY. There is light pyrite staining at the base of the turbidites.

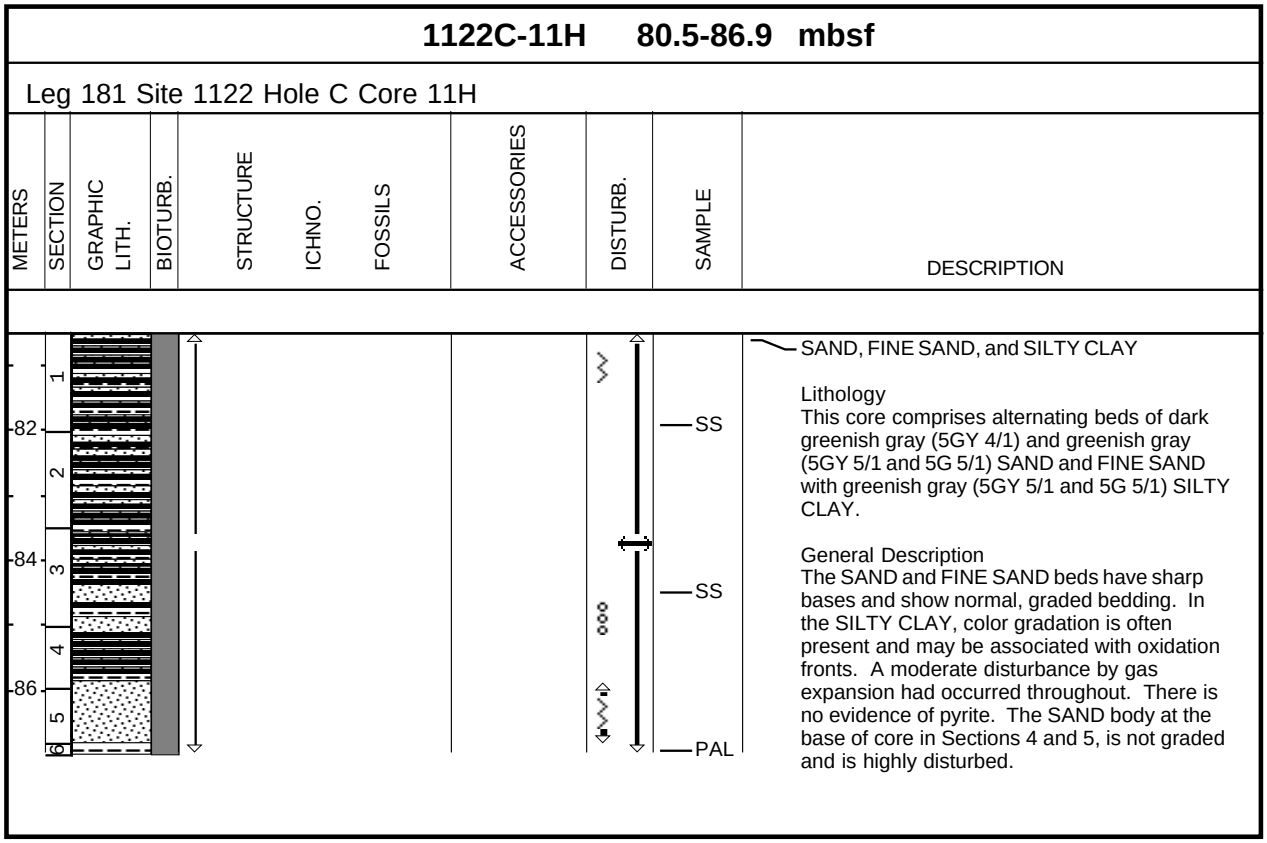
Core Photo


1122C-9H 61.5-71.0 mbsf
Leg 181 Site 1122 Hole C Core 9H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
62
64
66
68
70
1
2
3
4
5
6
Py
SS
IW
SS
PAL
SAND, FINE SAND, and SILTY CLAY
Lithology
This core is comprised of intercalations of dark greenish gray (5GY 4/1) and greenish gray (5GY 5/1) SAND and FINE SAND, interbedded with greenish gray (5G 5/1 to 5BG 6/1) SILTY CLAY.
General Description
Graded, sharp-based turbidites alternate with SILTY CLAY in this core. Pyrite staining occurs at the base of the sands at the top of Section 1, to 70 cm. There is moderate bioturbation in the SILTY CLAY layers, which causes a slight color mottling. A faint pinkish gray (5YR 6/2) layer (<1 cm) is present in Section 3, 3 cm.

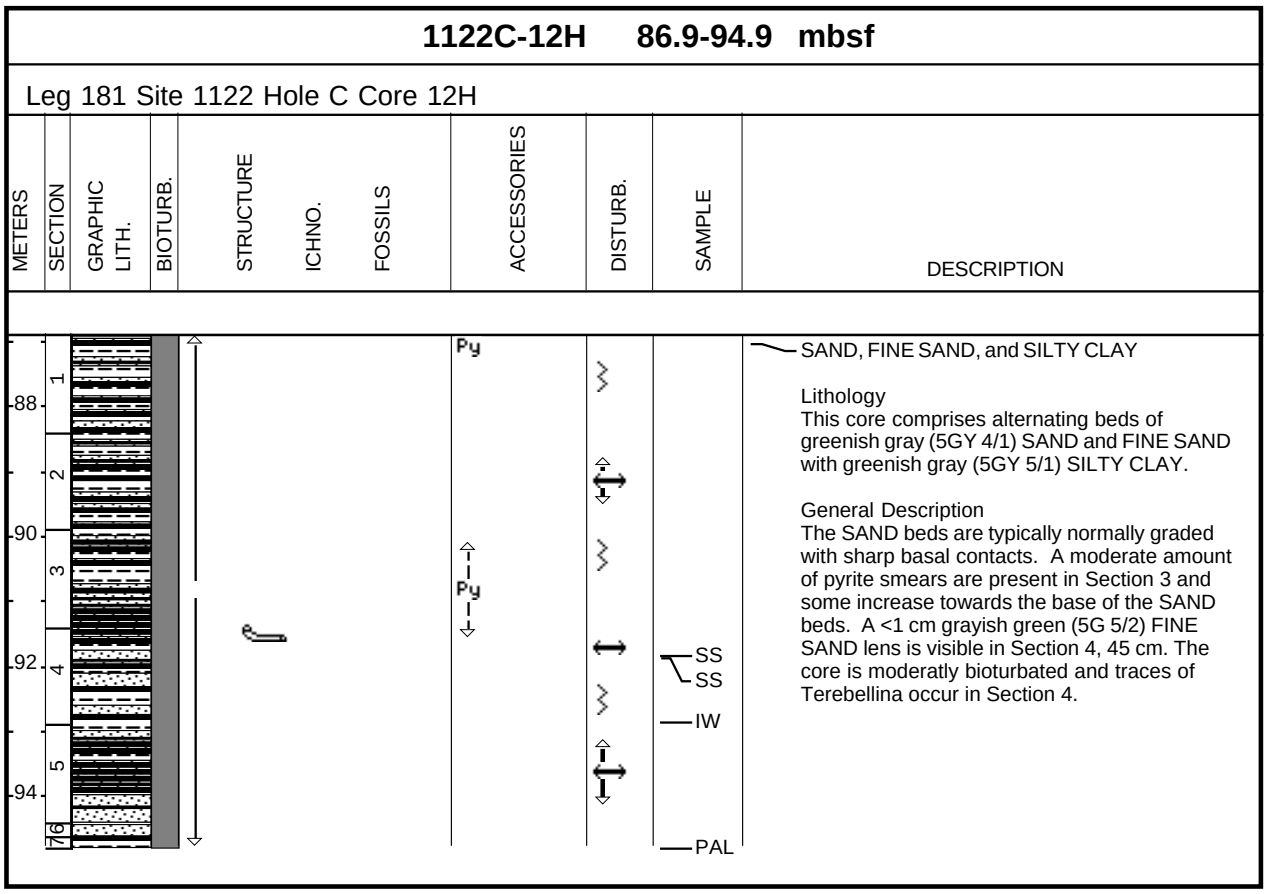
Core Photo


1122C-10H 71.0-80.5 mbsf
Leg 181 Site 1122 Hole C Core 10H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
72
74
76
78
80
1
2
3
4
5
6
7
SS
IW
PAL
SILTY CLAY, SAND, and VERY FINE SAND
Lithology
The major lithologies contained in this core are dark greenish gray (5GY 4/1) SAND to VERY FINE SAND and greenish gray (5BG 6/1 and 5GY 5/1) SILTY CLAY.
General Description
This core contains a succession of interbeds containing SILTY CLAY and SAND respectively. SILTY CLAY beds in Section 1 are greenish gray (5BG 6/1) which becomes a greenish gray (5GY 5/1) color below Section 2, 8 cm. SAND/VERY FINE SAND units have sharp bases and are typically normally graded, representing turbidite deposition. Skolithos traces are present in Sections 2 and 3 and there is moderate bioturbation in the SILTY CLAY units. No pyrite is seen in this core. Moderate drilling disturbance and gas expansion is visible throughout the core. Flow-in, with along-core color banding, is present below Section 6, 96 cm.

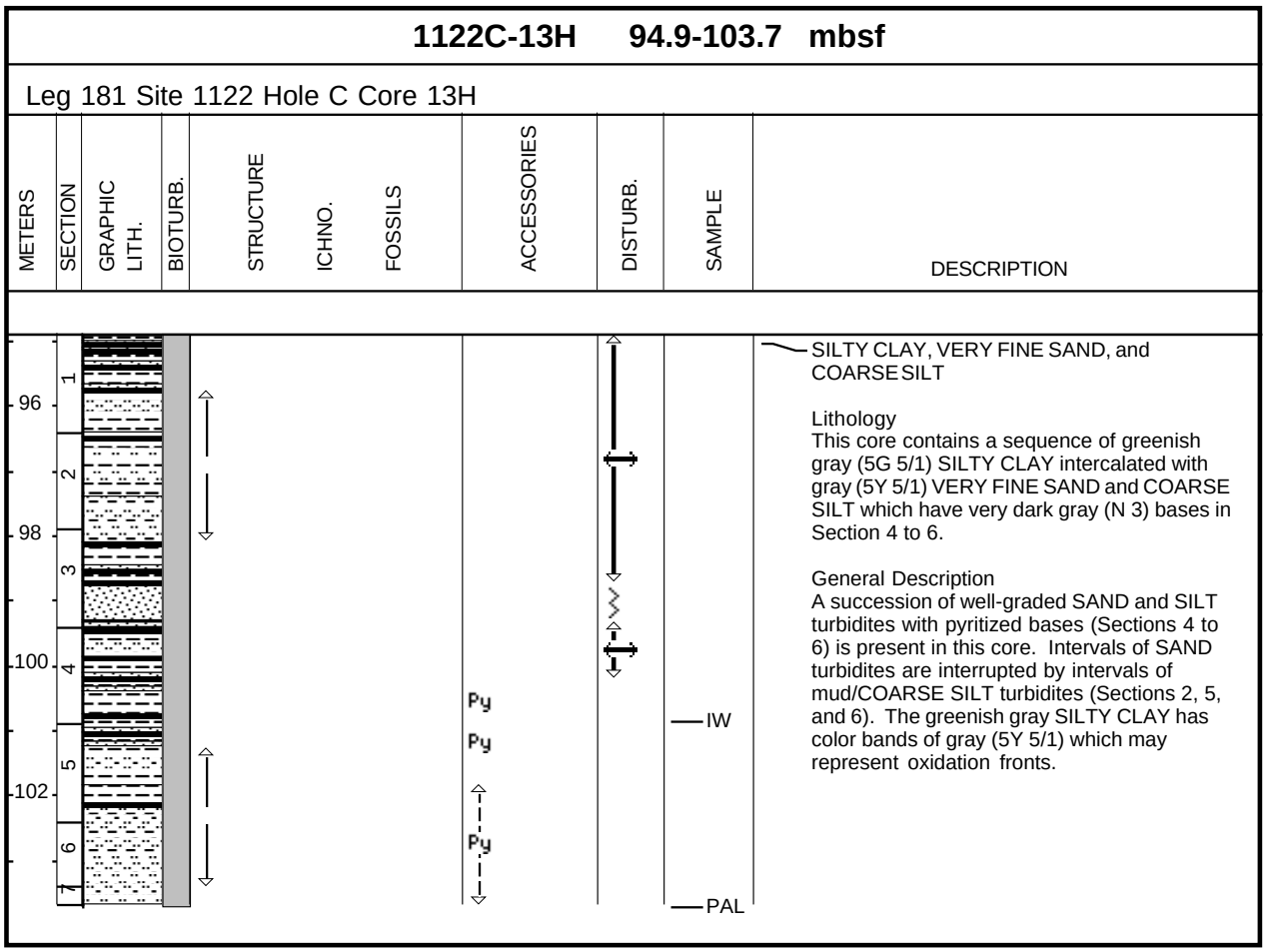
Core Photo


1122C-11H 80.5-86.9 mbsf
Leg 181 Site 1122 Hole C Core 11H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
82
84
86
1
2
3
4
5
6
SS
SS
PAL
SAND, FINE SAND, and SILTY CLAY
Lithology
This core comprises alternating beds of dark greenish gray (5GY 4/1) and greenish gray (5GY 5/1 and 5G 5/1) SAND and FINE SAND with greenish gray (5GY 5/1 and 5G 5/1) SILTY CLAY.
General Description
The SAND and FINE SAND beds have sharp bases and show normal, graded bedding. In the SILTY CLAY, color gradation is often present and may be associated with oxidation fronts. A moderate disturbance by gas expansion had occurred throughout. There is no evidence of pyrite. The SAND body at the base of core in Sections 4 and 5, is not graded and is highly disturbed.

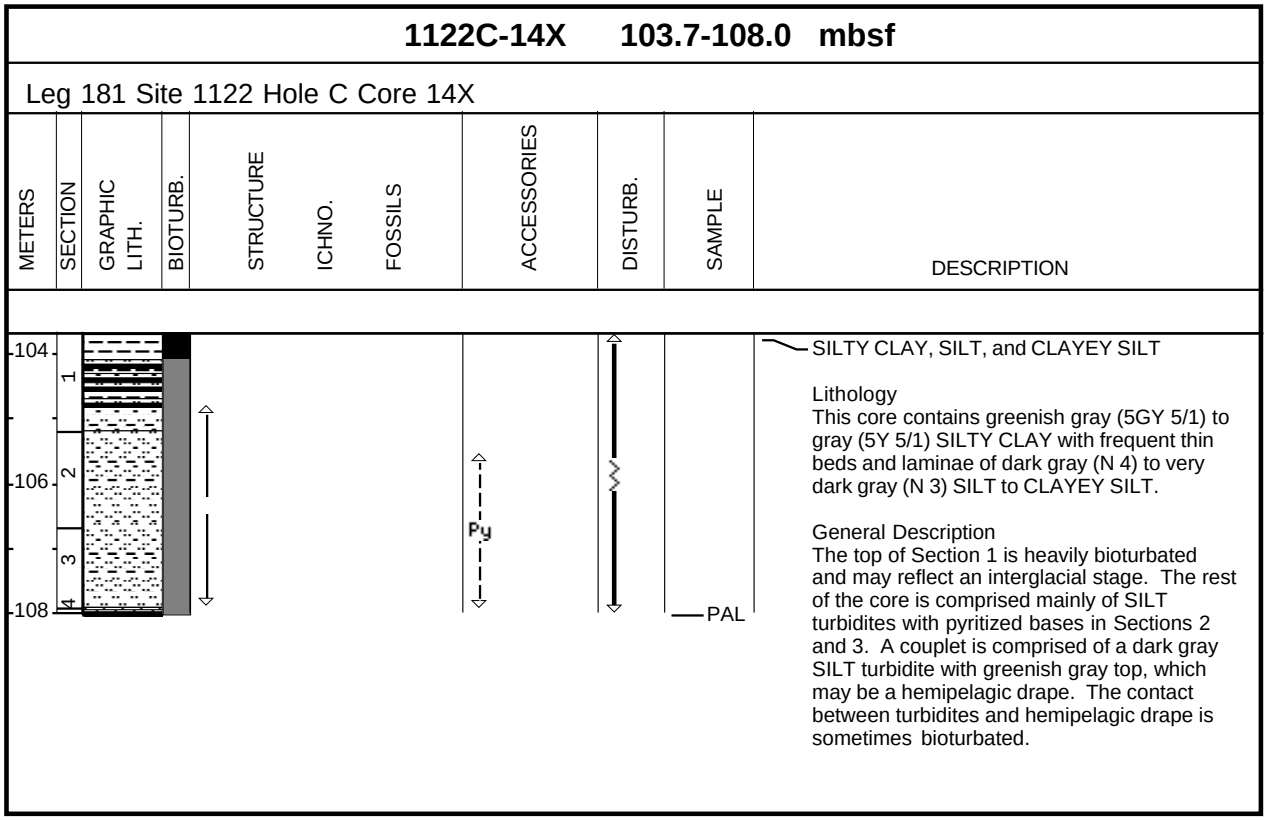
Core Photo


1122C-12H 86.9-94.9 mbsf
Leg 181 Site 1122 Hole C Core 12H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
88
90
92
94
1
2
3
4
5
7 6
Py
Py
SS
SS
IW
PAL
SAND, FINE SAND, and SILTY CLAY
Lithology
This core comprises alternating beds of greenish gray (5GY 4/1) SAND and FINE SAND with greenish gray (5GY 5/1) SILTY CLAY.
General Description
The SAND beds are typically normally graded with sharp basal contacts. A moderate amount of pyrite smears are present in Section 3 and some increase towards the base of the SAND beds. A <1 cm grayish green (5G 5/2) FINE SAND lens is visible in Section 4, 45 cm. The core is moderatly bioturbated and traces of Terebellina occur in Section 4.

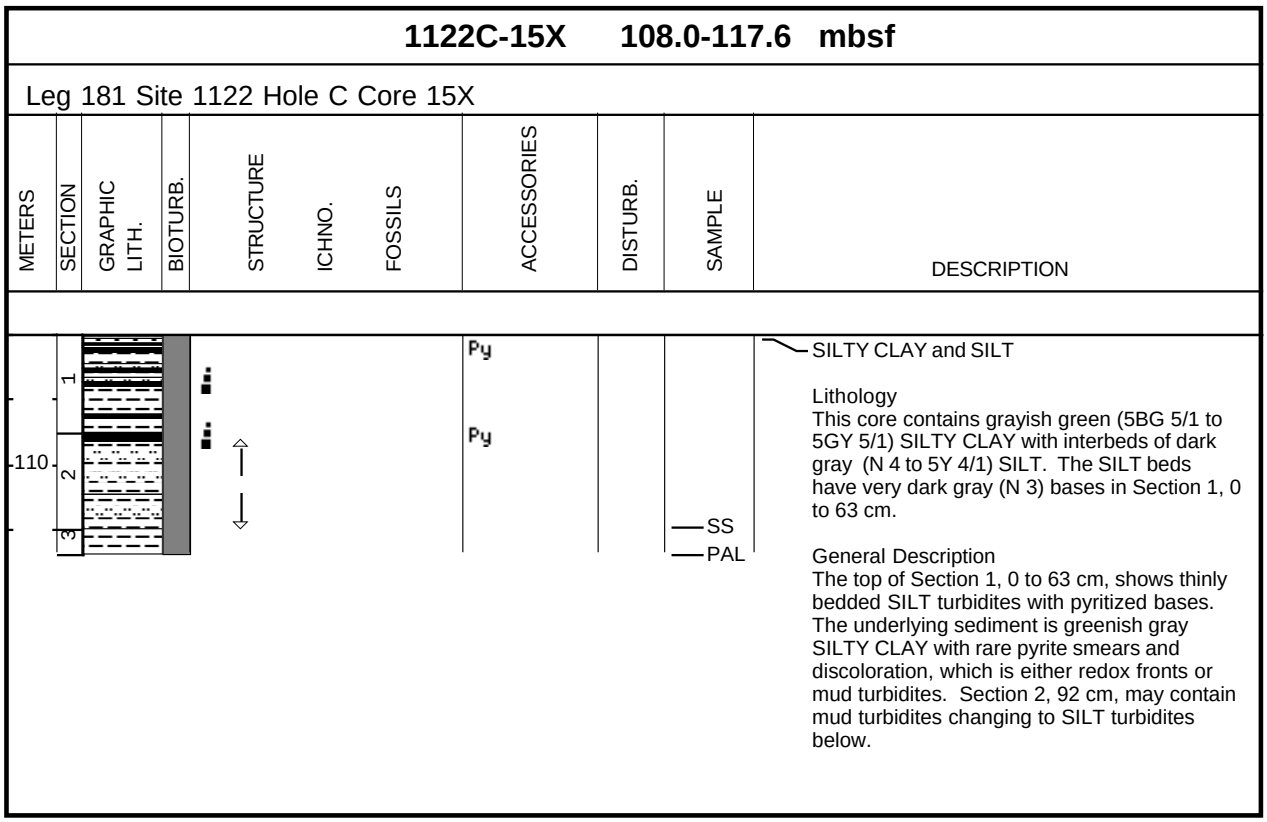
Core Photo


1122C-13H 94.9-103.7 mbsf
Leg 181 Site 1122 Hole C Core 13H
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
96
98
100
102
1
2
3
4
5
6
7
Py
Py
Py
IW
PAL
SILTY CLAY, VERY FINE SAND, and COARSE SILT
Lithology
This core contains a sequence of greenish gray (5G 5/1) SILTY CLAY intercalated with gray (5Y 5/1) VERY FINE SAND and COARSE SILT which have very dark gray (N 3) bases in Section 4 to 6.
General Description
A succession of well-graded SAND and SILT turbidites with pyritized bases (Sections 4 to 6) is present in this core. Intervals of SAND turbidites are interrupted by intervals of mud/COARSE SILT turbidites (Sections 2, 5, and 6). The greenish gray SILTY CLAY has color bands of gray (5Y 5/1) which may represent oxidation fronts.

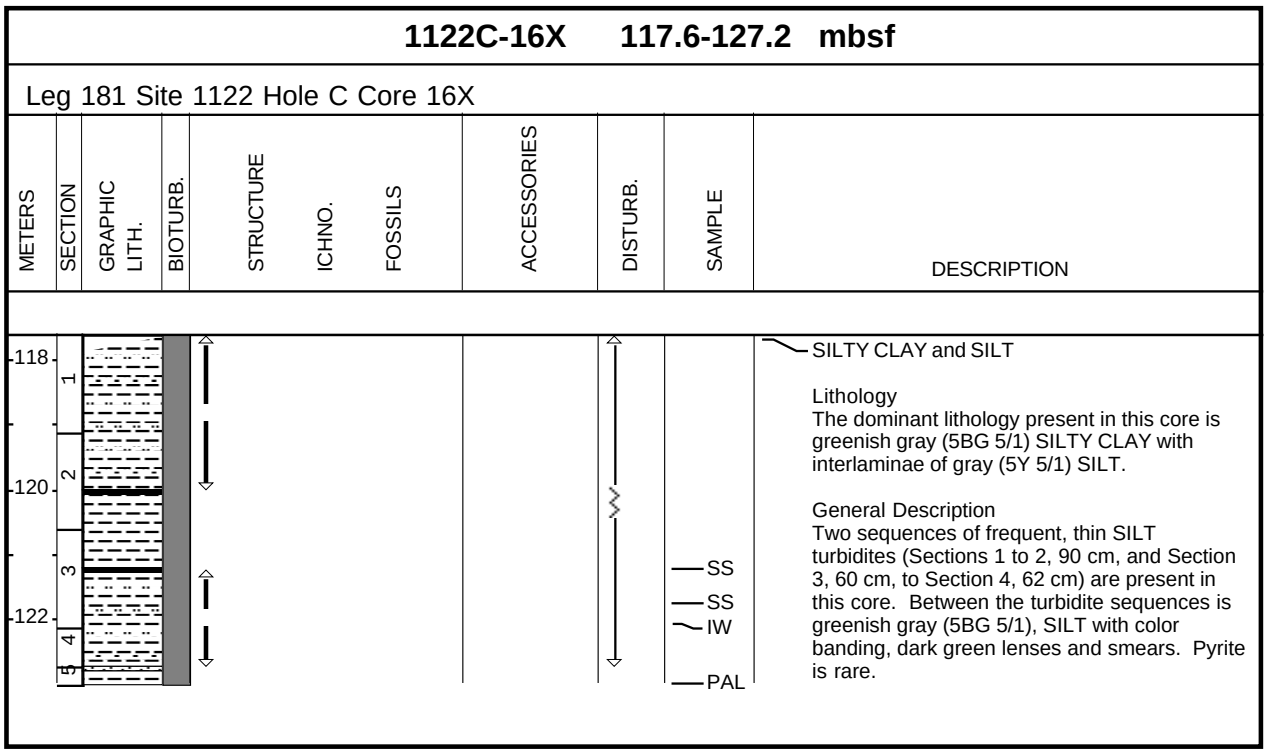
Core Photo


1122C-14X 103.7-108.0 mbsf
Leg 181 Site 1122 Hole C Core 14X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
104
106
108
1
2
3
4
Py
PAL
SILTY CLAY, SILT, and CLAYEY SILT
Lithology
This core contains greenish gray (5GY 5/1) to gray (5Y 5/1) SILTY CLAY with frequent thin beds and laminae of dark gray (N 4) to very dark gray (N 3) SILT to CLAYEY SILT.
General Description
The top of Section 1 is heavily bioturbated and may reflect an interglacial stage. The rest of the core is comprised mainly of SILT turbidites with pyritized bases in Sections 2 and 3. A couplet is comprised of a dark gray SILT turbidite with greenish gray top, which may be a hemipelagic drape. The contact between turbidites and hemipelagic drape is sometimes bioturbated.

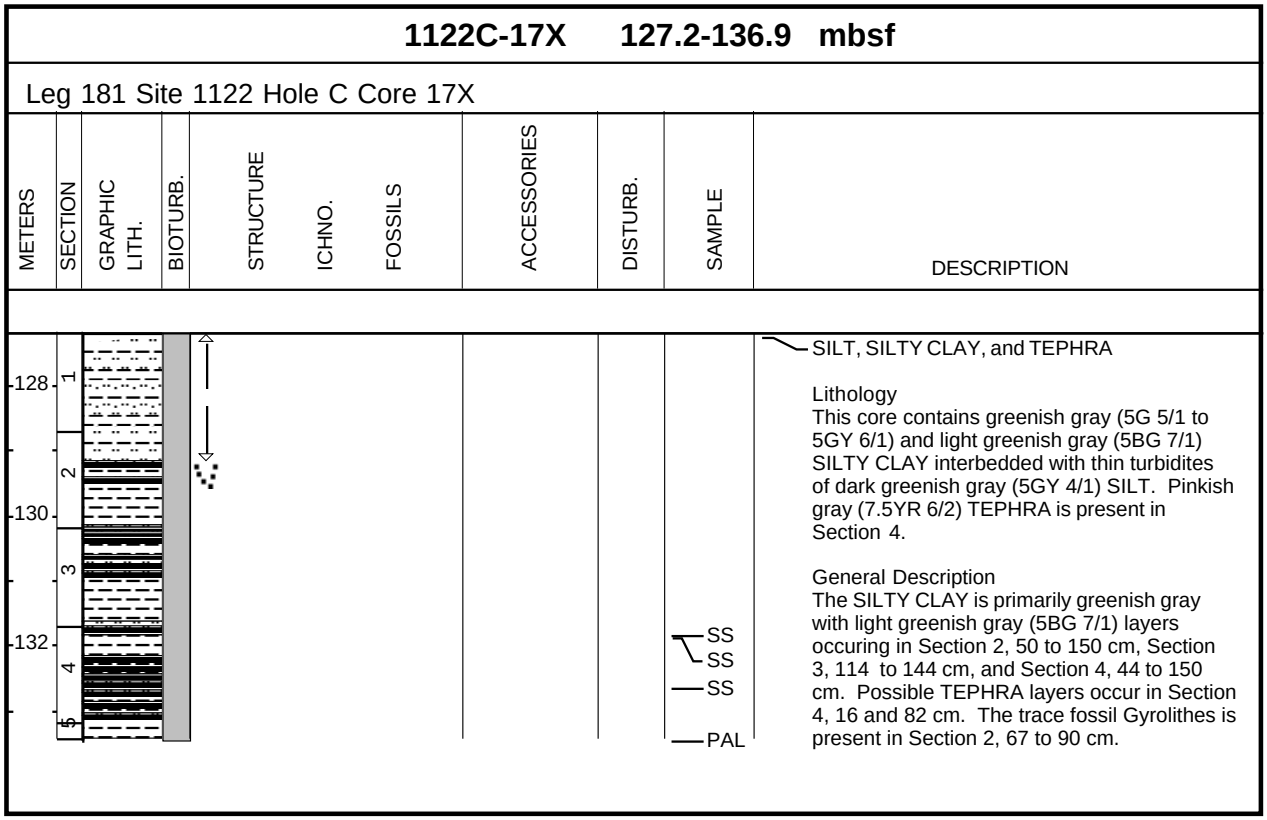
Core Photo


1122C-15X 108.0-117.6 mbsf
Leg 181 Site 1122 Hole C Core 15X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
110
1
2
3
Py
Py
SS
PAL
SILTY CLAY and SILT
Lithology
This core contains grayish green (5BG 5/1 to 5GY 5/1) SILTY CLAY with interbeds of dark gray (N 4 to 5Y 4/1) SILT. The SILT beds have very dark gray (N 3) bases in Section 1, 0 to 63 cm.
General Description
The top of Section 1, 0 to 63 cm, shows thinly bedded SILT turbidites with pyritized bases. The underlying sediment is greenish gray SILTY CLAY with rare pyrite smears and discoloration, which is either redox fronts or mud turbidites. Section 2, 92 cm, may contain mud turbidites changing to SILT turbidites below.

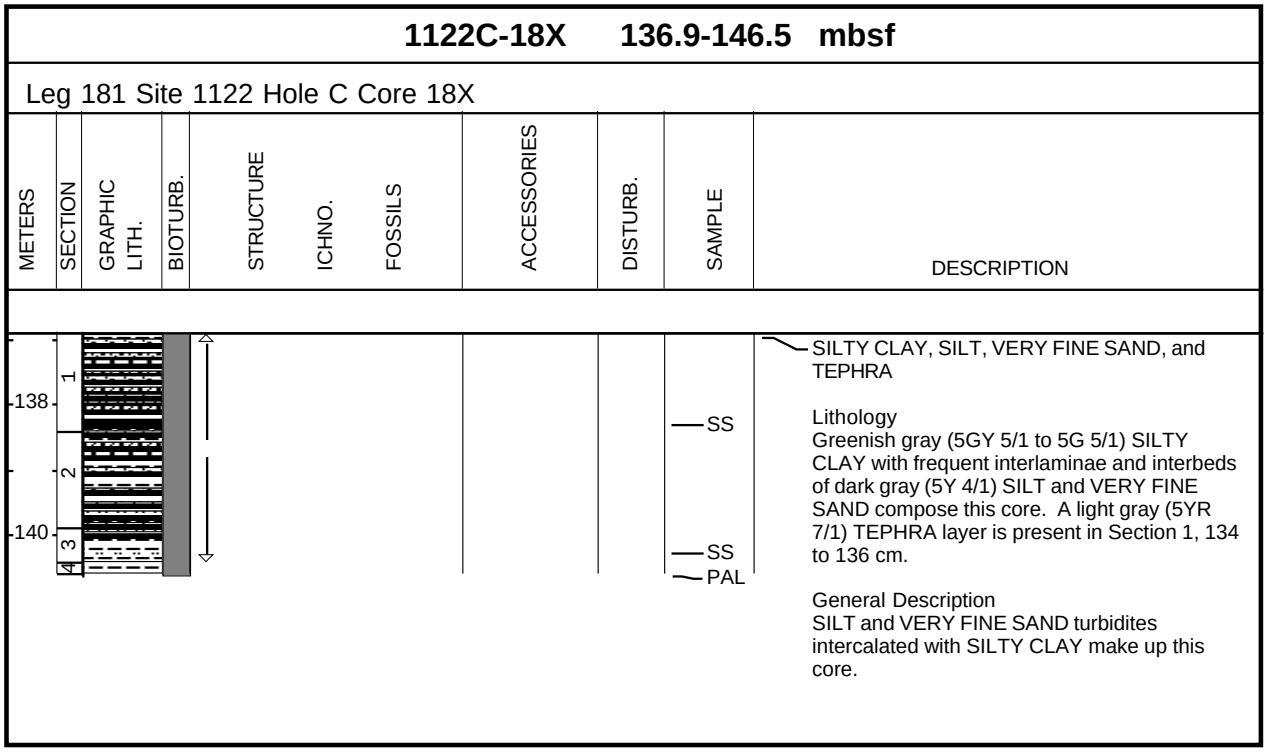
Core Photo


1122C-16X 117.6-127.2 mbsf
Leg 181 Site 1122 Hole C Core 16X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
118
120
122
1
2
3
4
5
SS
SS
IW
PAL
SILTY CLAY and SILT
Lithology
The dominant lithology present in this core is greenish gray (5BG 5/1) SILTY CLAY with interlaminae of gray (5Y 5/1) SILT.
General Description
Two sequences of frequent, thin SILT turbidites (Sections 1 to 2, 90 cm, and Section 3, 60 cm, to Section 4, 62 cm) are present in this core. Between the turbidite sequences is greenish gray (5BG 5/1), SILT with color banding, dark green lenses and smears. Pyrite is rare.

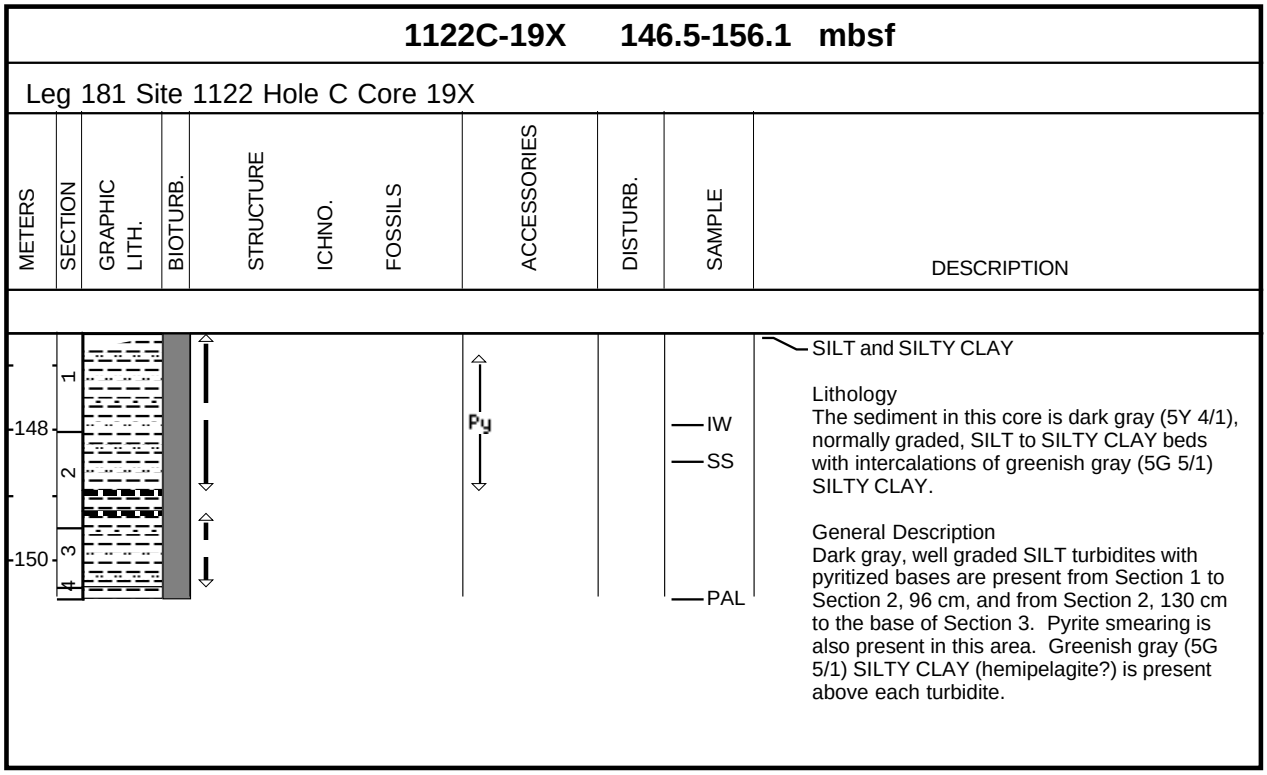
Core Photo


1122C-17X 127.2-136.9 mbsf
Leg 181 Site 1122 Hole C Core 17X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
128
130
132
1
2
3
4
5
SS
SS
SS
PAL
SILT, SILTY CLAY, and TEPHRA
Lithology
This core contains greenish gray (5G 5/1 to 5GY 6/1) and light greenish gray (5BG 7/1) SILTY CLAY interbedded with thin turbidites of dark greenish gray (5GY 4/1) SILT. Pinkish gray (7.5YR 6/2) TEPHRA is present in Section 4.
General Description
The SILTY CLAY is primarily greenish gray with light greenish gray (5BG 7/1) layers occuring in Section 2, 50 to 150 cm, Section 3, 114 to 144 cm, and Section 4, 44 to 150 cm. Possible TEPHRA layers occur in Section 4, 16 and 82 cm. The trace fossil Gyrolithes is present in Section 2, 67 to 90 cm.

Core Photo


1122C-18X 136.9-146.5 mbsf
Leg 181 Site 1122 Hole C Core 18X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
138
140
1
2
3
4
SS
SS
PAL
SILTY CLAY, SILT, VERY FINE SAND, and TEPHRA
Lithology
Greenish gray (5GY 5/1 to 5G 5/1) SILTY CLAY with frequent interlaminae and interbeds of dark gray (5Y 4/1) SILT and VERY FINE SAND compose this core. A light gray (5YR 7/1) TEPHRA layer is present in Section 1, 134 to 136 cm.
General Description
SILT and VERY FINE SAND turbidites intercalated with SILTY CLAY make up this core.

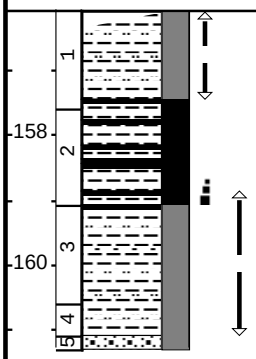
Core Photo


1122C-19X 146.5-156.1 mbsf
Leg 181 Site 1122 Hole C Core 19X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
148
150
1
2
3
4
Py
IW
SS
PAL
SILT and SILTY CLAY
Lithology
The sediment in this core is dark gray (5Y 4/1), normally graded, SILT to SILTY CLAY beds with intercalations of greenish gray (5G 5/1) SILTY CLAY.
General Description
Dark gray, well graded SILT turbidites with pyritized bases are present from Section 1 to Section 2, 96 cm, and from Section 2, 130 cm to the base of Section 3. Pyrite smearing is also present in this area. Greenish gray (5G 5/1) SILTY CLAY (hemipelagite?) is present above each turbidite.

Core Photo

1122C-20X 156.1-165.7 mbsf

Leg 181 Site 1122 Hole C Core 20X

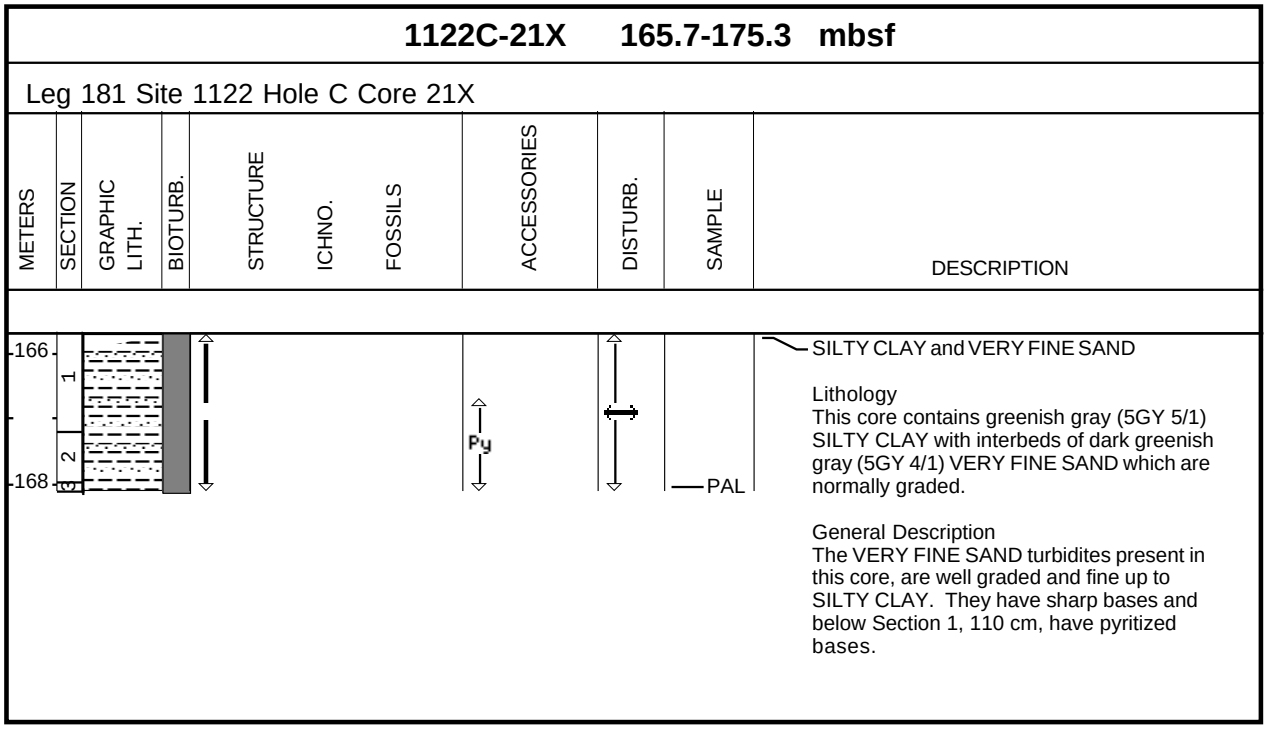


SILTY CLAY and SILT

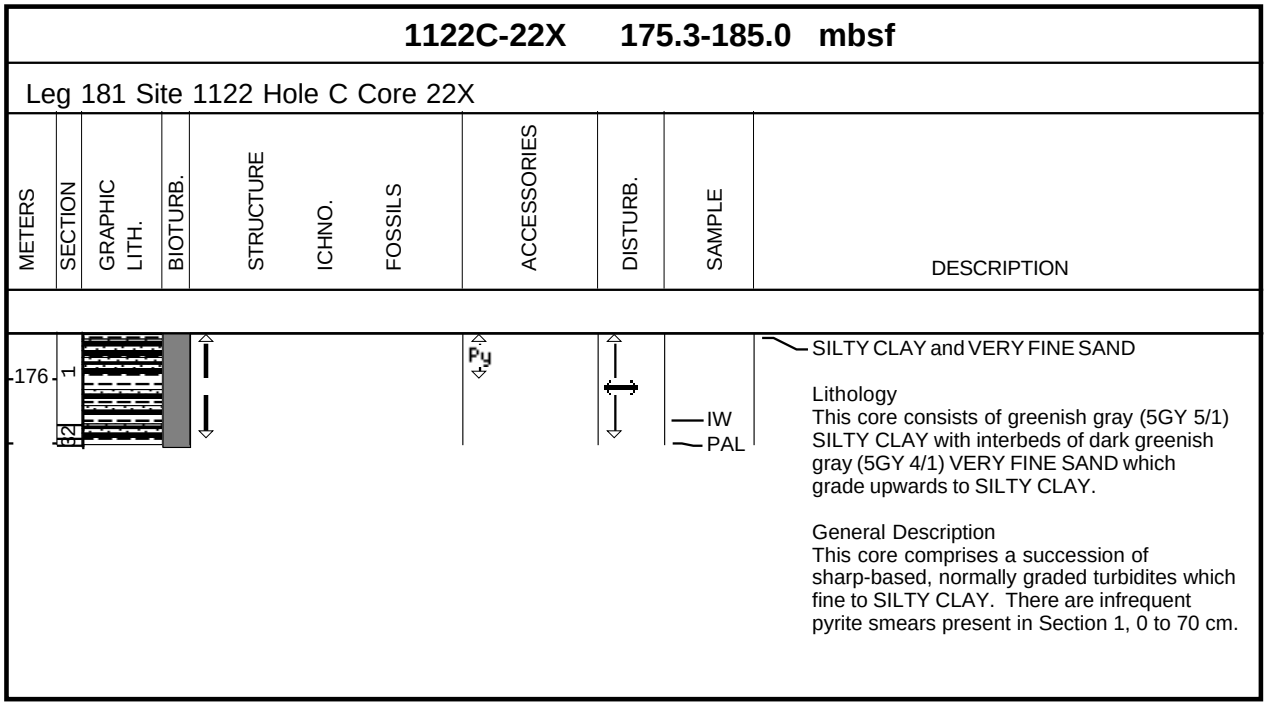
Lithology
This core is comprised of greenish gray (5GY 5/1) SILTY CLAY with interbeds of gray (5Y 5/1) to dark gray (5Y 4/1) normally graded SILT to SILTY CLAY. Light greenish gray (5BG 7/1) to greenish gray (5GY 7/1) color banded and mottled SILTY CLAY is also present.

General Description
This core has two successions of SILT turbidites (each commonly thicker than 5 cm) with SILTY CLAY interbeds separated by a highly bioturbated, light greenish gray (5BG 7/1) SILTY CLAY with a few SILT turbidites (Section 2). Section 2 is primarily various colors of SILTY CLAY which include: 0 to 20 cm is 5GY 5/1, 20 to 60 cm is 5BG 6/1, 60 to 85 cm is light gray (2.5Y 8/1), and 85 to 105 cm is light gray (5BG 7/1) laminae. Below, the sediment shows a color transition to 5BG 7/1 and finally to 5G 5/1 before the frequent turbidite beds resume in Section 3.

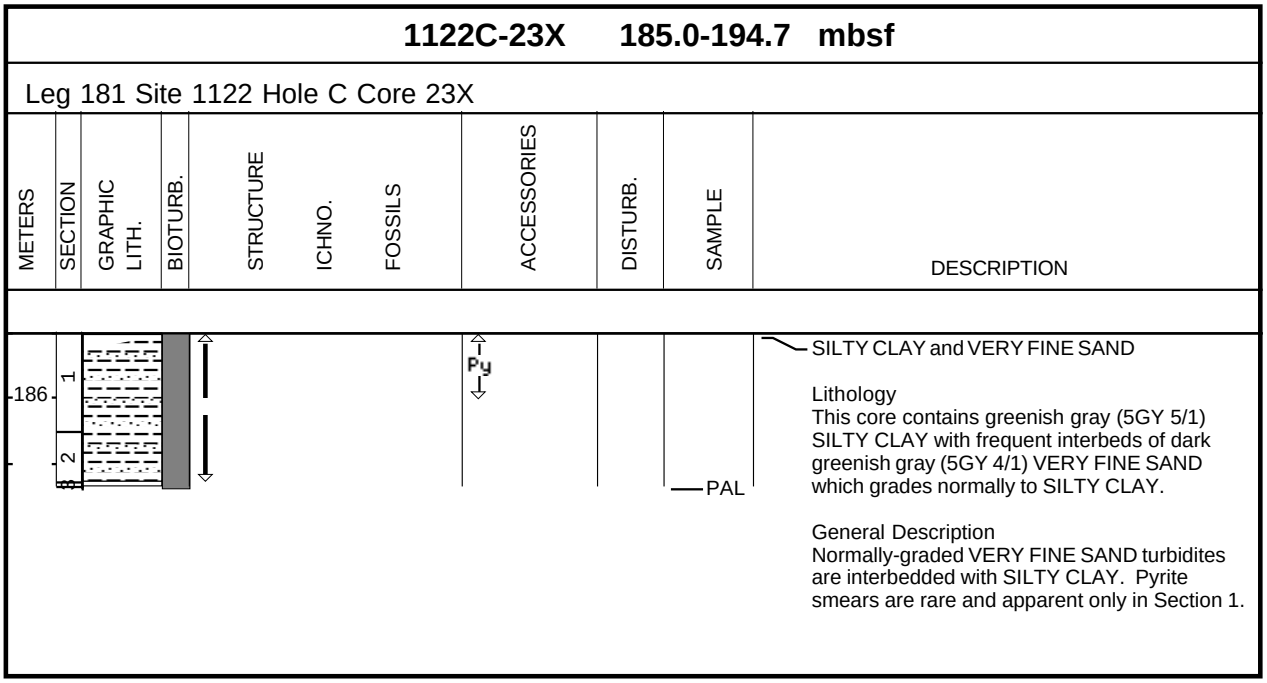
Core Photo


1122C-21X 165.7-175.3 mbsf
Leg 181 Site 1122 Hole C Core 21X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
166
168
1
2
CC
Py
PAL
SILTY CLAY and VERY FINE SAND
Lithology
This core contains greenish gray (5GY 5/1) SILTY CLAY with interbeds of dark greenish gray (5GY 4/1) VERY FINE SAND which are normally graded.
General Description
The VERY FINE SAND turbidites present in this core, are well graded and fine up to SILTY CLAY. They have sharp bases and below Section 1, 110 cm, have pyritized bases.

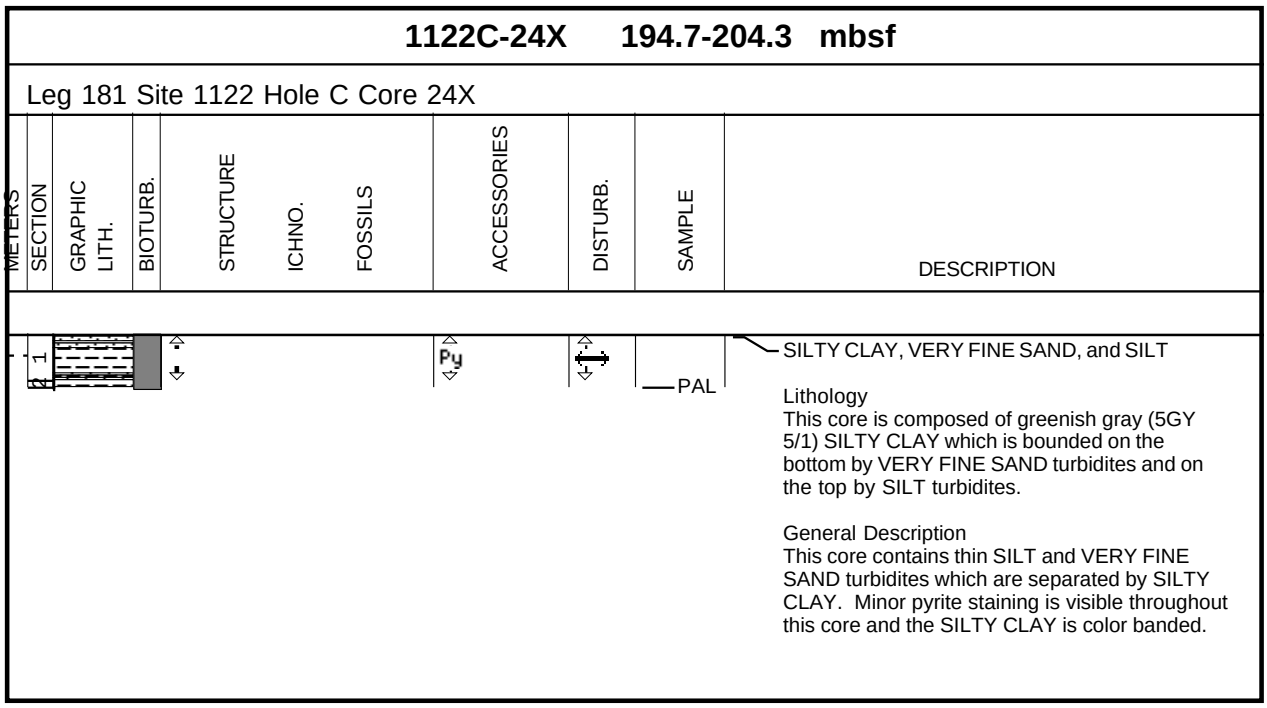
Core Photo


1122C-22X 175.3-185.0 mbsf
Leg 181 Site 1122 Hole C Core 22X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
176
1
2
Py
IW
PAL
SILTY CLAY and VERY FINE SAND
Lithology
This core consists of greenish gray (5GY 5/1) SILTY CLAY with interbeds of dark greenish gray (5GY 4/1) VERY FINE SAND which grade upwards to SILTY CLAY.
General Description
This core comprises a succession of sharp-based, normally graded turbidites which fine to SILTY CLAY. There are infrequent pyrite smears present in Section 1, 0 to 70 cm.

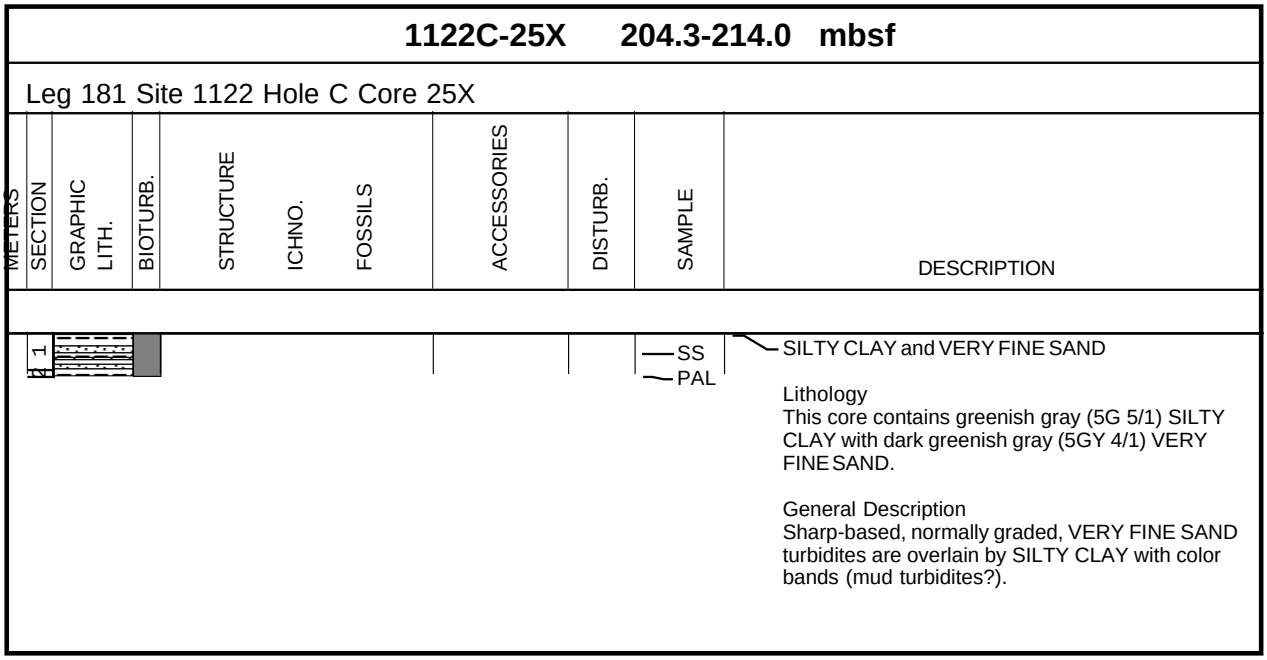
Core Photo


1122C-23X 185.0-194.7 mbsf
Leg 181 Site 1122 Hole C Core 23X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
186
1
2
Py
PAL
SILTY CLAY and VERY FINE SAND
Lithology
This core contains greenish gray (5GY 5/1) SILTY CLAY with frequent interbeds of dark greenish gray (5GY 4/1) VERY FINE SAND which grades normally to SILTY CLAY.
General Description
Normally-graded VERY FINE SAND turbidites are interbedded with SILTY CLAY. Pyrite smears are rare and apparent only in Section 1.

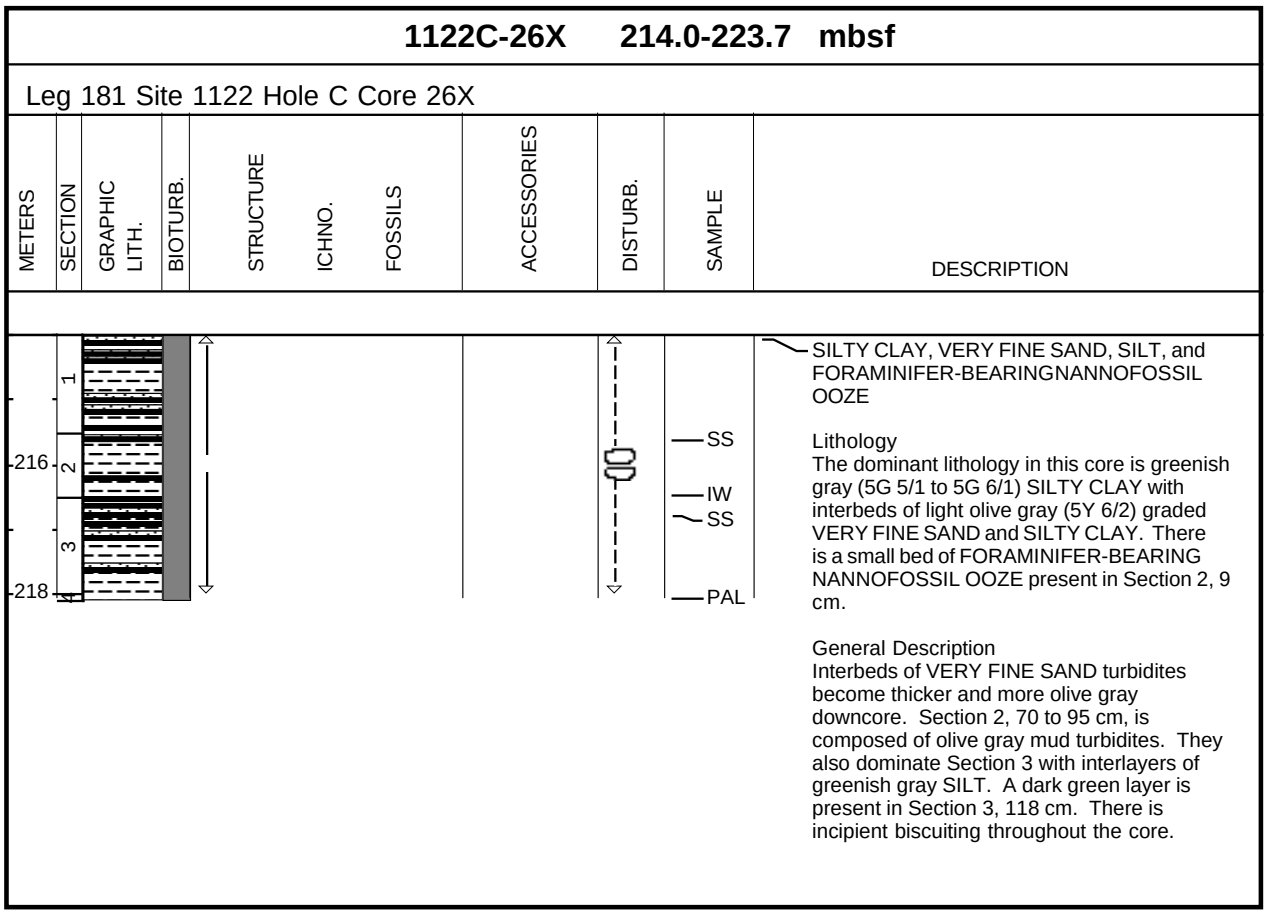
Core Photo


1122C-24X 194.7-204.3 mbsf
Leg 181 Site 1122 Hole C Core 24X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
1
Py
PAL
SILTY CLAY, VERY FINE SAND, and SILT
Lithology
This core is composed of greenish gray (5GY 5/1) SILTY CLAY which is bounded on the bottom by VERY FINE SAND turbidites and on the top by SILT turbidites.
General Description
This core contains thin SILT and VERY FINE SAND turbidites which are separated by SILTY CLAY. Minor pyrite staining is visible throughout this core and the SILTY CLAY is color banded.

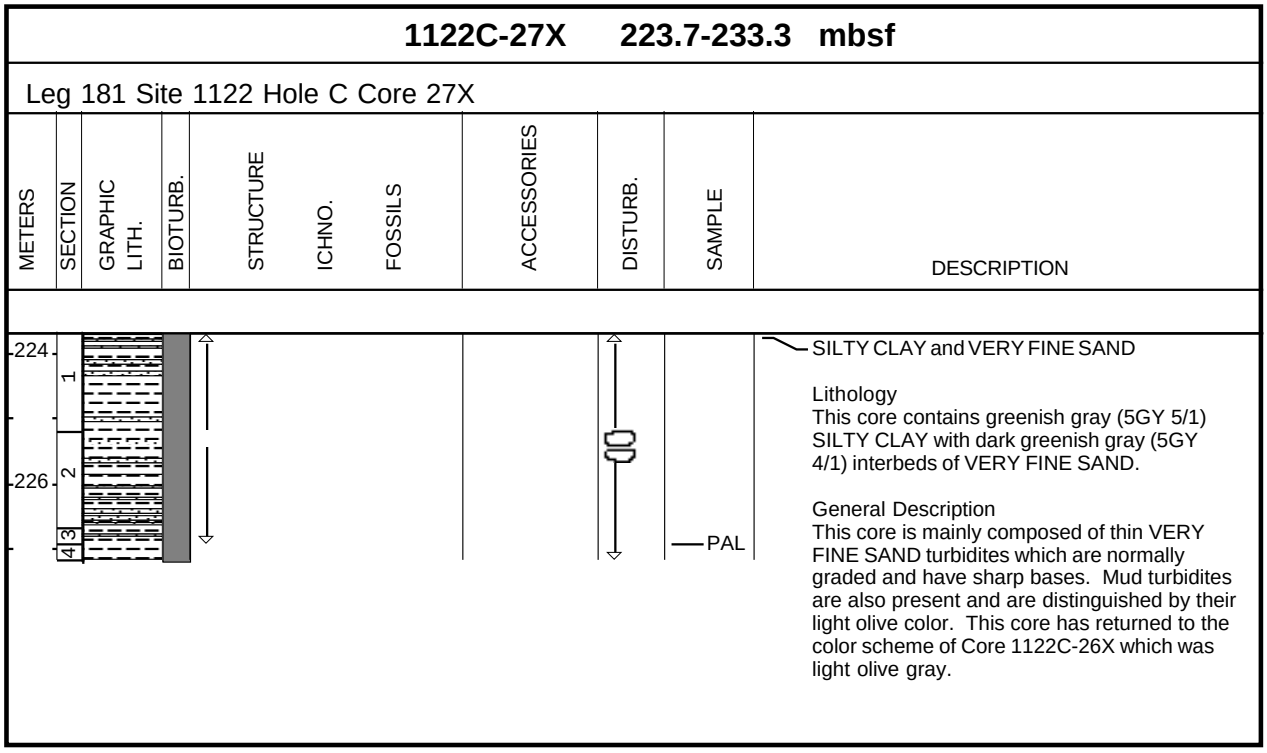
Core Photo


1122C-25X 204.3-214.0 mbsf
Leg 181 Site 1122 Hole C Core 25X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
1
SS
PAL
SILTY CLAY and VERY FINE SAND
Lithology
This core contains greenish gray (5G 5/1) SILTY CLAY with dark greenish gray (5GY 4/1) VERY FINE SAND.
General Description
Sharp-based, normally graded, VERY FINE SAND turbidites are overlain by SILTY CLAY with color bands (mud turbidites?).

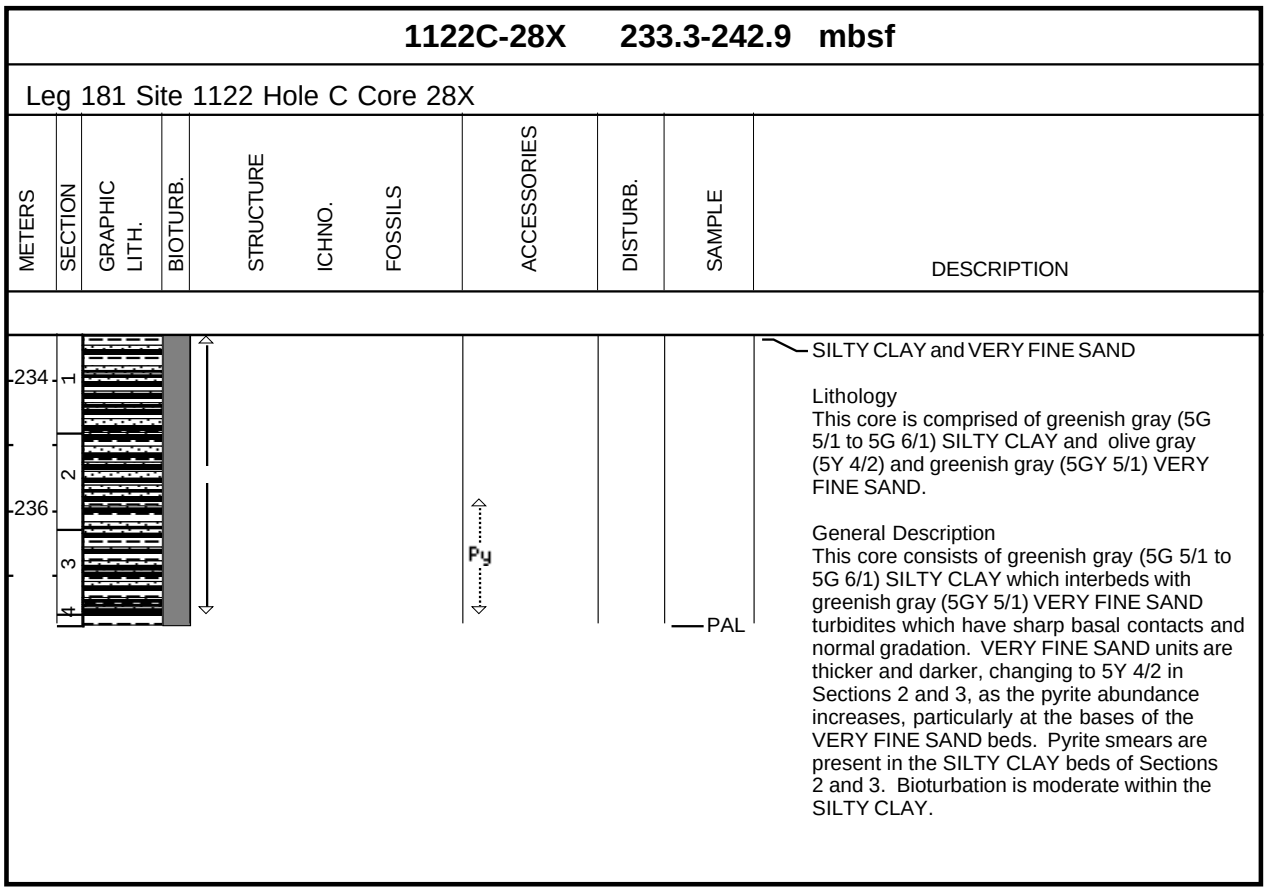
Core Photo


1122C-26X 214.0-223.7 mbsf
Leg 181 Site 1122 Hole C Core 26X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
216
218
1
2
3
4
SS
IW
SS
PAL
SILTY CLAY, VERY FINE SAND, SILT, and FORAMINIFER-BEARINGNANNOFOSSIL OOZE
Lithology
The dominant lithology in this core is greenish gray (5G 5/1 to 5G 6/1) SILTY CLAY with interbeds of light olive gray (5Y 6/2) graded VERY FINE SAND and SILTY CLAY. There is a small bed of FORAMINIFER-BEARING NANNOFOSSIL OOZE present in Section 2, 9 cm.
General Description
Interbeds of VERY FINE SAND turbidites become thicker and more olive gray downcore. Section 2, 70 to 95 cm, is composed of olive gray mud turbidites. They also dominate Section 3 with interlayers of greenish gray SILT. A dark green layer is present in Section 3, 118 cm. There is incipient biscuiting throughout the core.

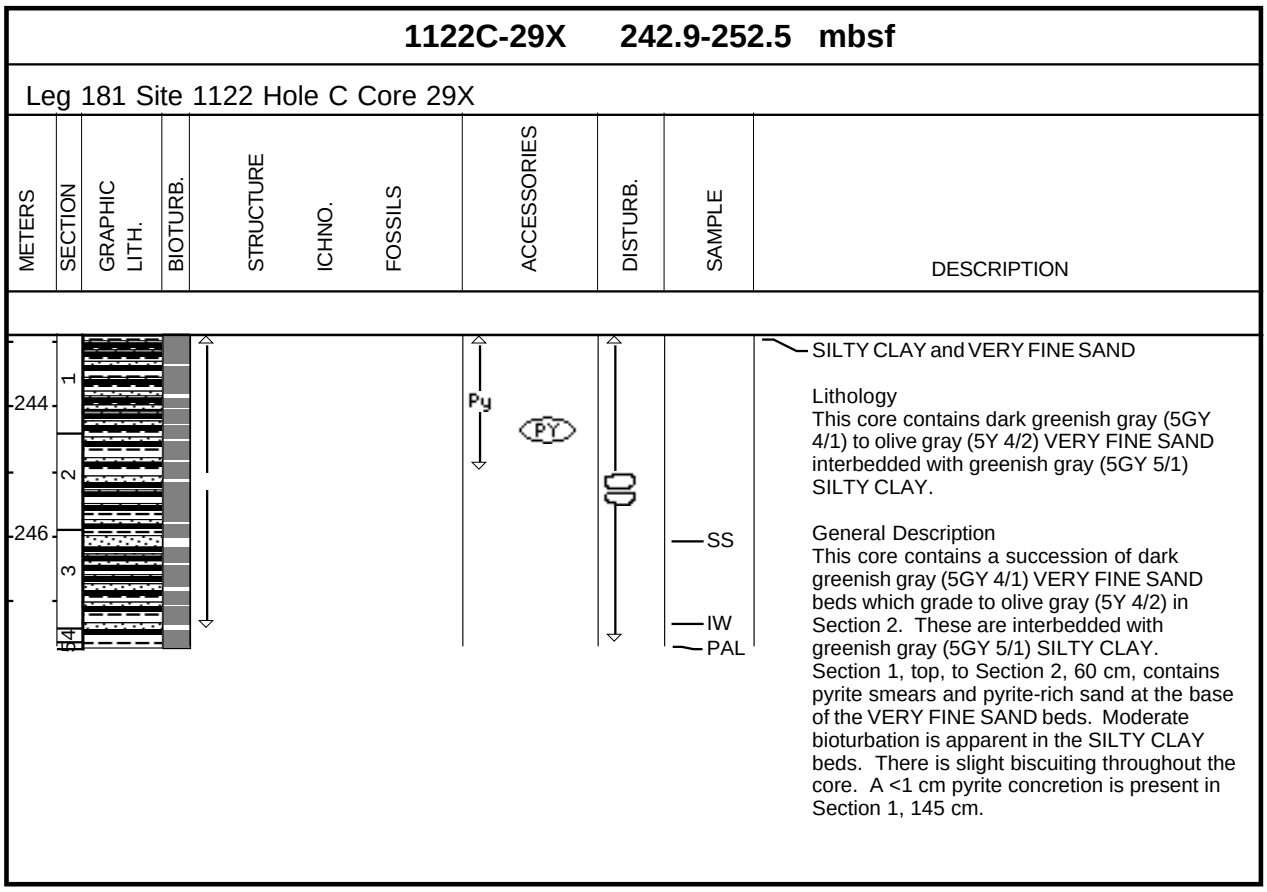
Core Photo


1122C-27X 223.7-233.3 mbsf
Leg 181 Site 1122 Hole C Core 27X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
224
226
1
2
3
4
PAL
SILTY CLAY and VERY FINE SAND
Lithology
This core contains greenish gray (5GY 5/1) SILTY CLAY with dark greenish gray (5GY 4/1) interbeds of VERY FINE SAND.
General Description
This core is mainly composed of thin VERY FINE SAND turbidites which are normally graded and have sharp bases. Mud turbidites are also present and are distinguished by their light olive color. This core has returned to the color scheme of Core 1122C-26X which was light olive gray.

Core Photo


1122C-28X 233.3-242.9 mbsf
Leg 181 Site 1122 Hole C Core 28X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
234
236
1
2
3
4
Py
PAL
SILTY CLAY and VERY FINE SAND
Lithology
This core is comprised of greenish gray (5G 5/1 to 5G 6/1) SILTY CLAY and olive gray (5Y 4/2) and greenish gray (5GY 5/1) VERY FINE SAND.
General Description
This core consists of greenish gray (5G 5/1 to 5G 6/1) SILTY CLAY which interbeds with greenish gray (5GY 5/1) VERY FINE SAND turbidites which have sharp basal contacts and normal gradation. VERY FINE SAND units are thicker and darker, changing to 5Y 4/2 in Sections 2 and 3, as the pyrite abundance increases, particularly at the bases of the VERY FINE SAND beds. Pyrite smears are present in the SILTY CLAY beds of Sections 2 and 3. Bioturbation is moderate within the SILTY CLAY.

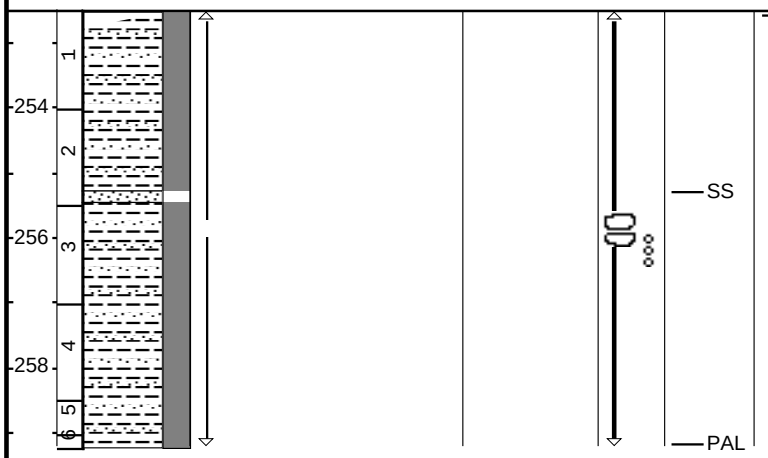
Core Photo


1122C-29X 242.9-252.5 mbsf
Leg 181 Site 1122 Hole C Core 29X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
244
246
1
2
3
4
Py
PY
SS
IW
PAL
SILTY CLAY and VERY FINE SAND
Lithology
This core contains dark greenish gray (5GY 4/1) to olive gray (5Y 4/2) VERY FINE SAND interbedded with greenish gray (5GY 5/1) SILTY CLAY.
General Description
This core contains a succession of dark greenish gray (5GY 4/1) VERY FINE SAND beds which grade to olive gray (5Y 4/2) in Section 2. These are interbedded with greenish gray (5GY 5/1) SILTY CLAY. Section 1, top, to Section 2, 60 cm, contains pyrite smears and pyrite-rich sand at the base of the VERY FINE SAND beds. Moderate bioturbation is apparent in the SILTY CLAY beds. There is slight biscuiting throughout the core. A <1 cm pyrite concretion is present in Section 1, 145 cm.

Core Photo

1122C-30X 252.5-261.7 mbsf

Leg 181 Site 1122 Hole C Core 30X

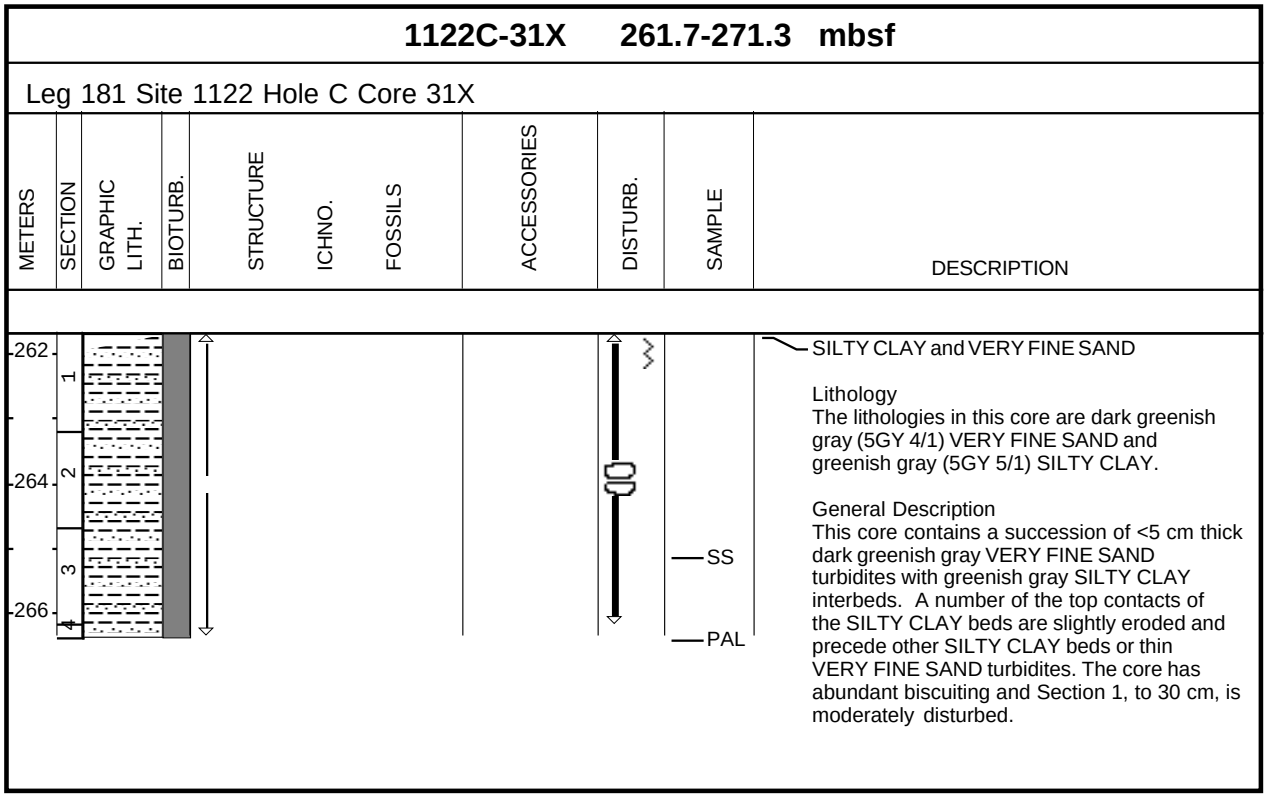


SILTY CLAY and VERY FINE SAND

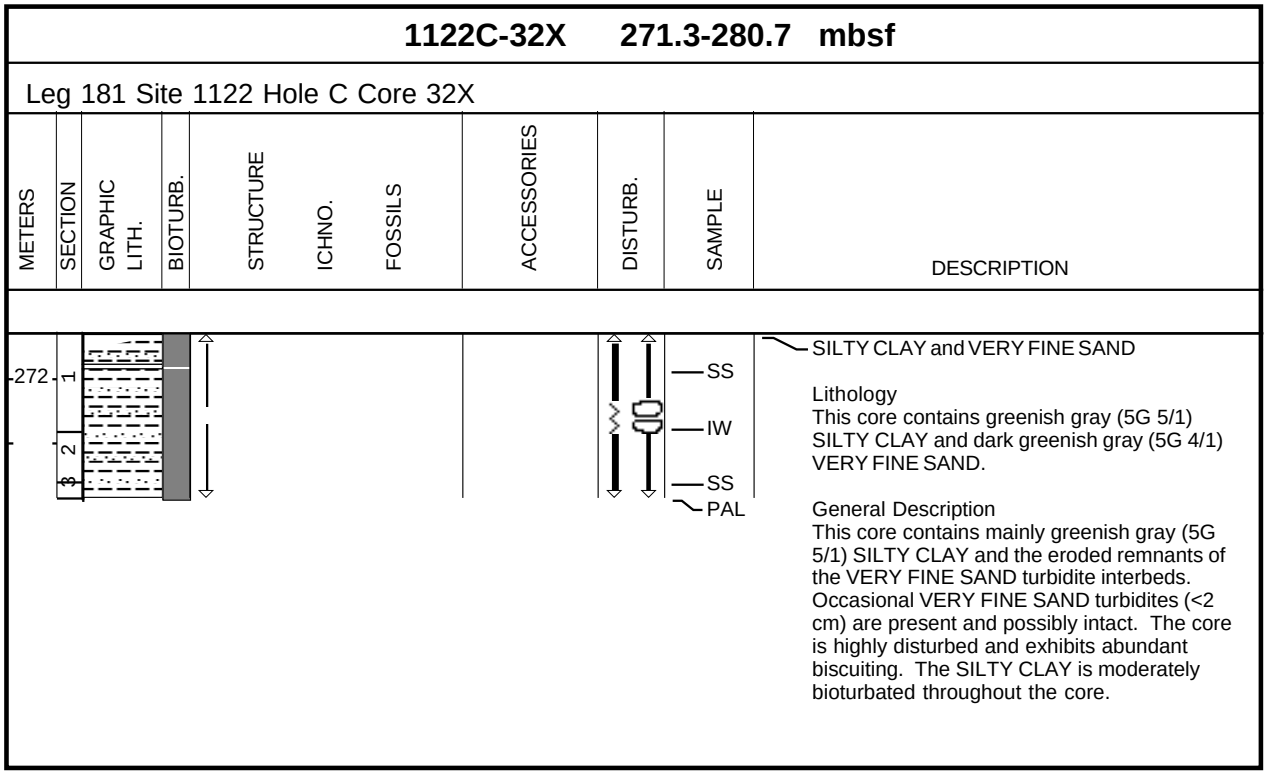
Lithology
This core is comprised of dark greenish gray (5GY 5/1) to olive gray (5Y 4/2) VERY FINE SAND turbidites which are interbedded with greenish gray (5GY 4/1) and gray (5Y 6/2) SILTY CLAY.

General Description
A succession of VERY FINE SAND turbidites and SILTY CLAY layers is present in this core. In the upper two sections, the VERY FINE SAND is dark greenish gray (5GY 5/1) and the SILTY CLAY is greenish gray (5GY 4/1). In Sections 3 and 4, the VERY FINE SAND beds are olive gray (5Y 4/2) and the SILTY CLAY is gray (5Y 6/2). The SILTY CLAY is moderately bioturbated and there are occasional mud turbidites throughout the core. Moderate biscuiting is pervasive. Some of the SILTY CLAY contacts appear eroded and the VERY FINE SAND units above them may be reduced in thickness.

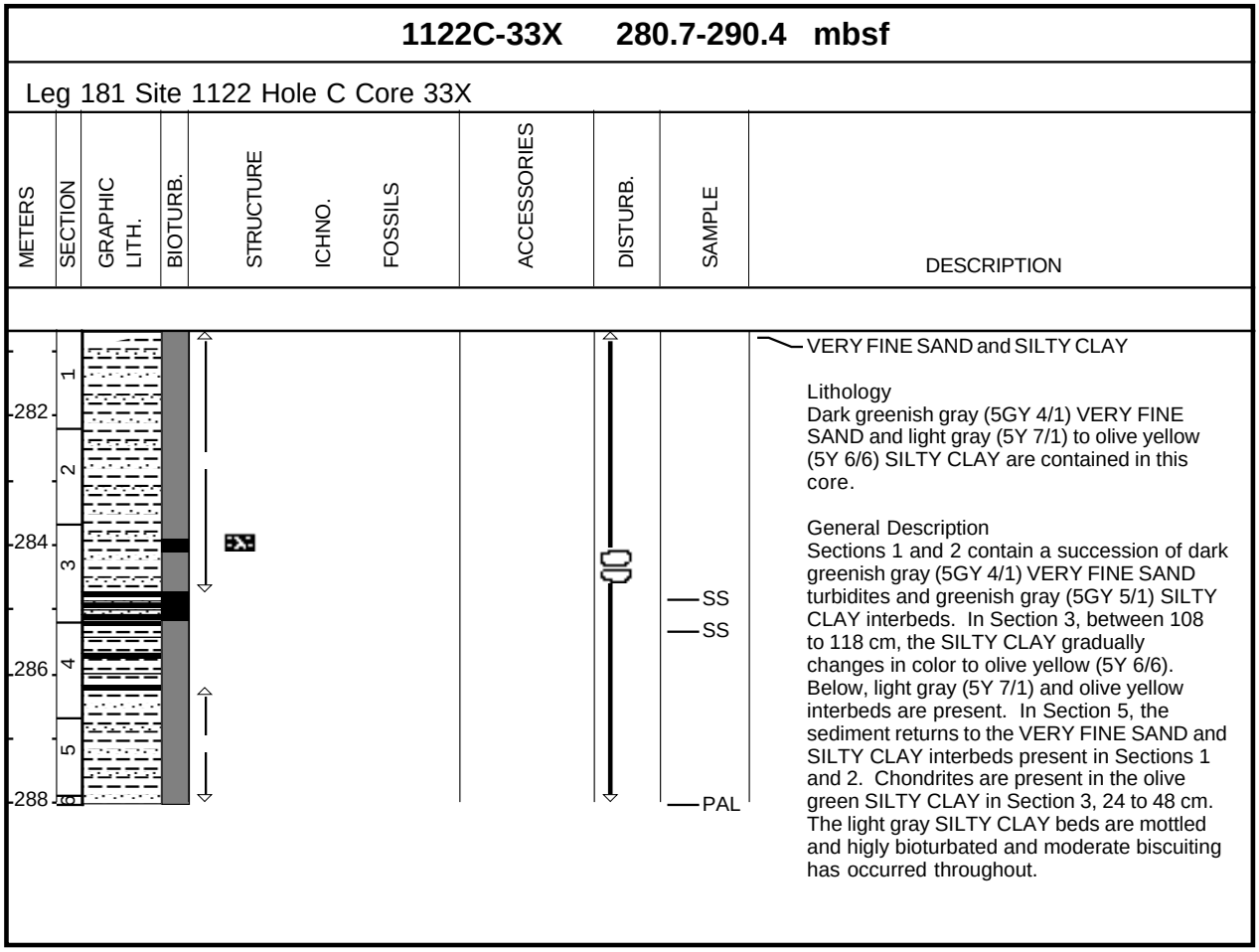
Core Photo


1122C-31X 261.7-271.3 mbsf
Leg 181 Site 1122 Hole C Core 31X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
262
264
266
1
2
3
4
SS
PAL
SILTY CLAY and VERY FINE SAND
Lithology
The lithologies in this core are dark greenish gray (5GY 4/1) VERY FINE SAND and greenish gray (5GY 5/1) SILTY CLAY.
General Description
This core contains a succession of <5 cm thick dark greenish gray VERY FINE SAND turbidites with greenish gray SILTY CLAY interbeds. A number of the top contacts of the SILTY CLAY beds are slightly eroded and precede other SILTY CLAY beds or thin VERY FINE SAND turbidites. The core has abundant biscuiting and Section 1, to 30 cm, is moderately disturbed.

Core Photo


1122C-32X 271.3-280.7 mbsf
Leg 181 Site 1122 Hole C Core 32X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
272
1
2
3
SS
IW
SS
PAL
SILTY CLAY and VERY FINE SAND
Lithology
This core contains greenish gray (5G 5/1) SILTY CLAY and dark greenish gray (5G 4/1) VERY FINE SAND.
General Description
This core contains mainly greenish gray (5G 5/1) SILTY CLAY and the eroded remnants of the VERY FINE SAND turbidite interbeds. Occasional VERY FINE SAND turbidites (<2 cm) are present and possibly intact. The core is highly disturbed and exhibits abundant biscuiting. The SILTY CLAY is moderately bioturbated throughout the core.

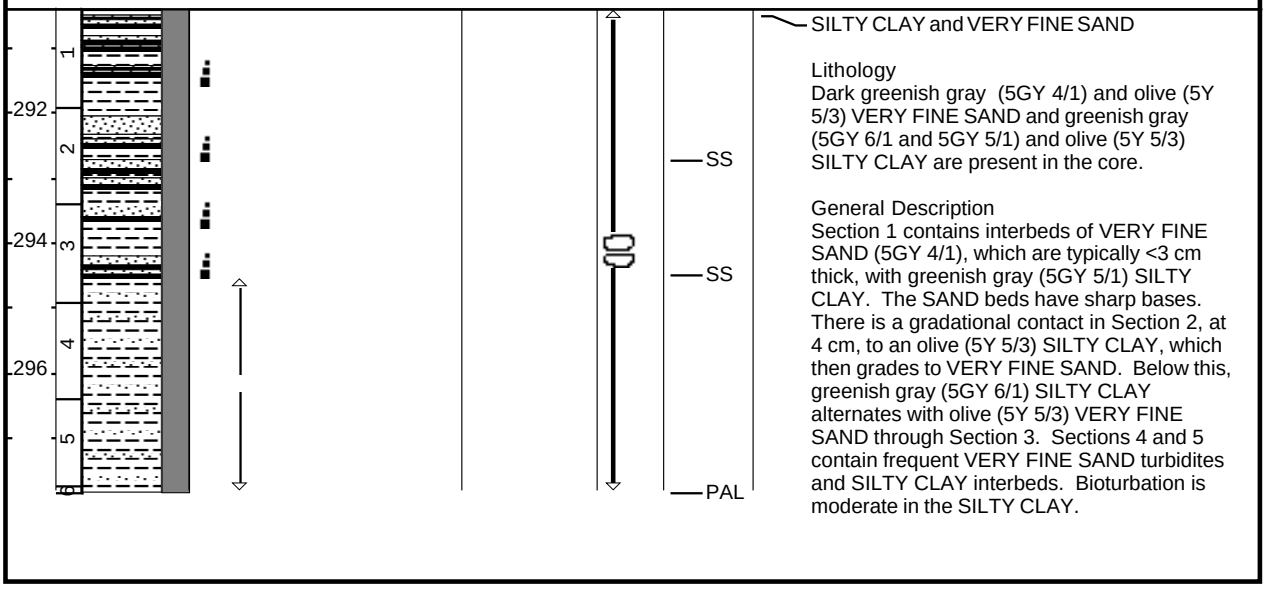
Core Photo


1122C-33X 280.7-290.4 mbsf
Leg 181 Site 1122 Hole C Core 33X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
282
284
286
288
1
2
3
4
5
6
SS
SS
PAL
VERY FINE SAND and SILTY CLAY
Lithology
Dark greenish gray (5GY 4/1) VERY FINE SAND and light gray (5Y 7/1) to olive yellow (5Y 6/6) SILTY CLAY are contained in this core.
General Description
Sections 1 and 2 contain a succession of dark greenish gray (5GY 4/1) VERY FINE SAND turbidites and greenish gray (5GY 5/1) SILTY CLAY interbeds. In Section 3, between 108 to 118 cm, the SILTY CLAY gradually changes in color to olive yellow (5Y 6/6). Below, light gray (5Y 7/1) and olive yellow interbeds are present. In Section 5, the sediment returns to the VERY FINE SAND and SILTY CLAY interbeds present in Sections 1 and 2. Chondrites are present in the olive green SILTY CLAY in Section 3, 24 to 48 cm. The light gray SILTY CLAY beds are mottled and higly bioturbated and moderate biscuiting has occurred throughout.

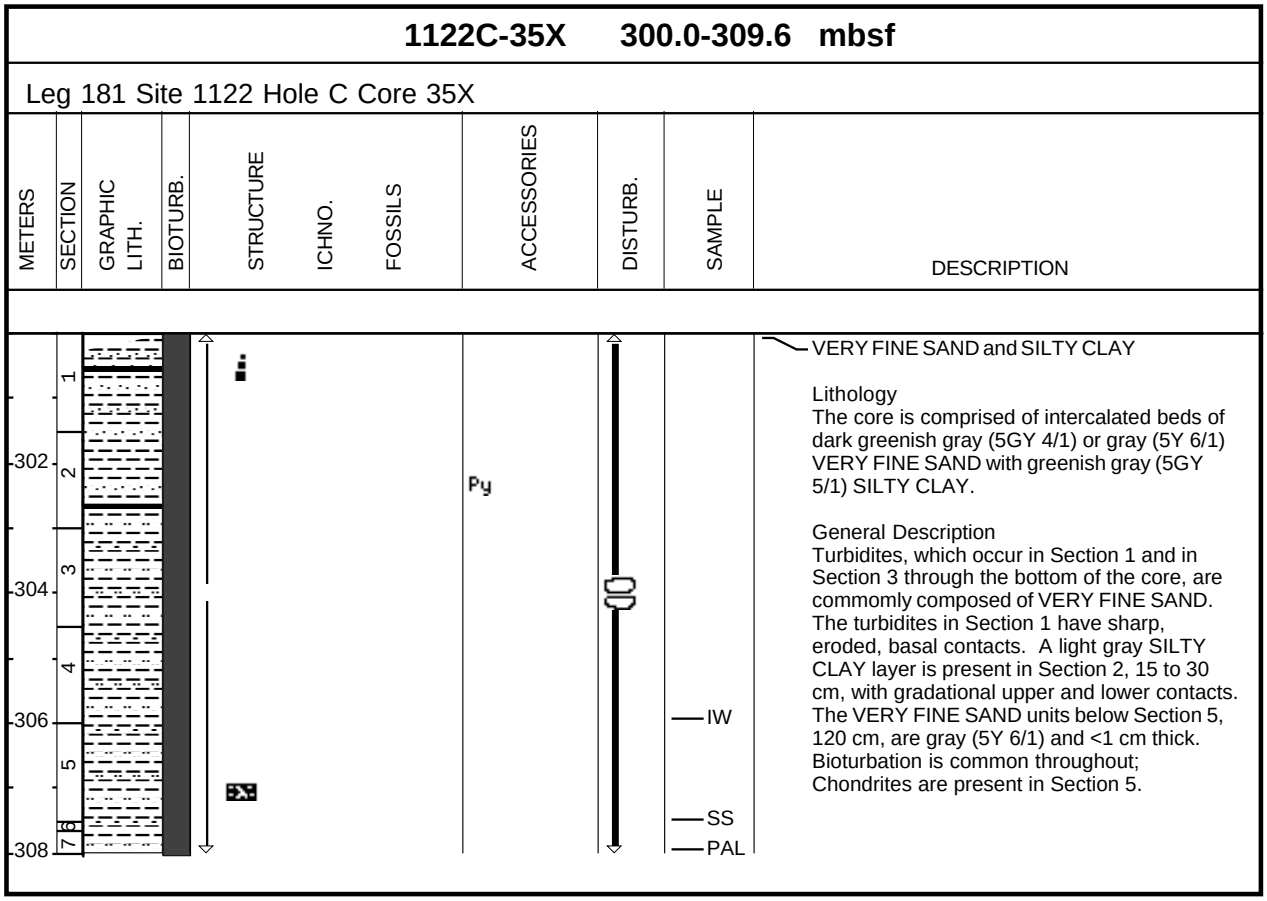
Core Photo

1122C-34X 290.4-300.0 mbsf

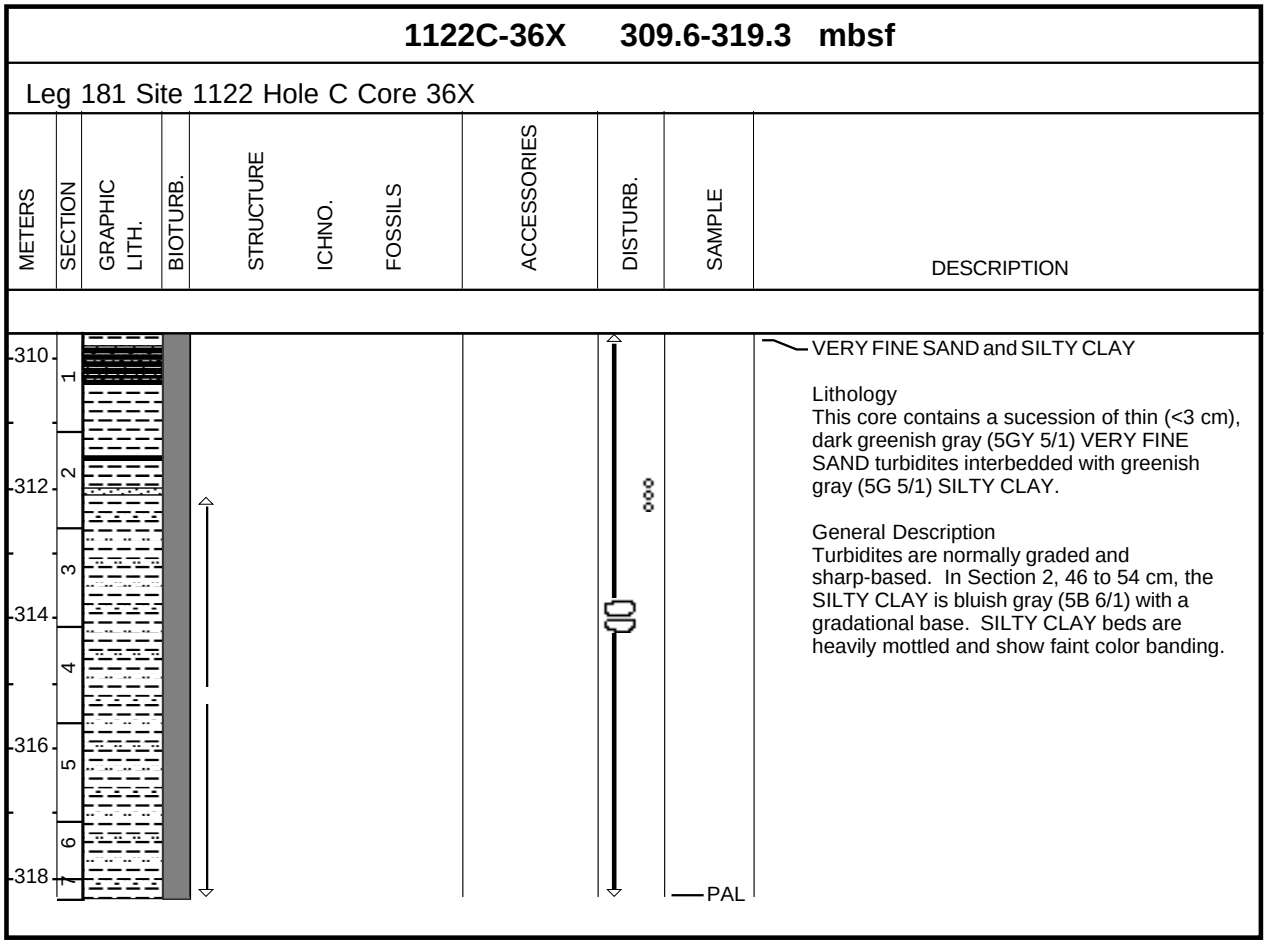
Leg 181 Site 1122 Hole C Core 34X



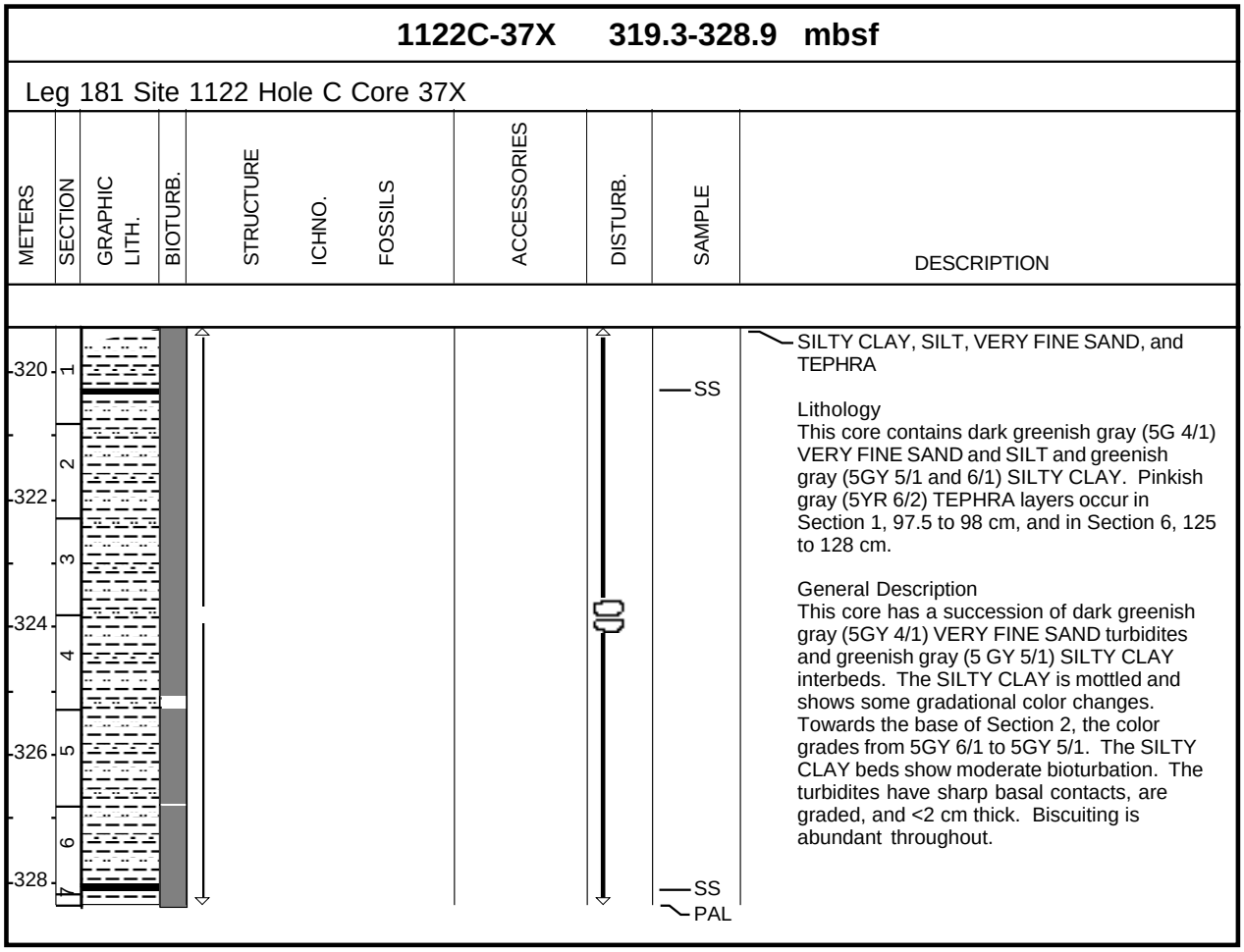
Core Photo


1122C-35X 300.0-309.6 mbsf
Leg 181 Site 1122 Hole C Core 35X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
302
304
306
308
1
2
3
4
5
6
7
Py
IW
SS
PAL
VERY FINE SAND and SILTY CLAY
Lithology
The core is comprised of intercalated beds of dark greenish gray (5GY 4/1) or gray (5Y 6/1) VERY FINE SAND with greenish gray (5GY 5/1) SILTY CLAY.
General Description
Turbidites, which occur in Section 1 and in Section 3 through the bottom of the core, are commomly composed of VERY FINE SAND. The turbidites in Section 1 have sharp, eroded, basal contacts. A light gray SILTY CLAY layer is present in Section 2, 15 to 30 cm, with gradational upper and lower contacts. The VERY FINE SAND units below Section 5, 120 cm, are gray (5Y 6/1) and <1 cm thick. Bioturbation is common throughout; Chondrites are present in Section 5.

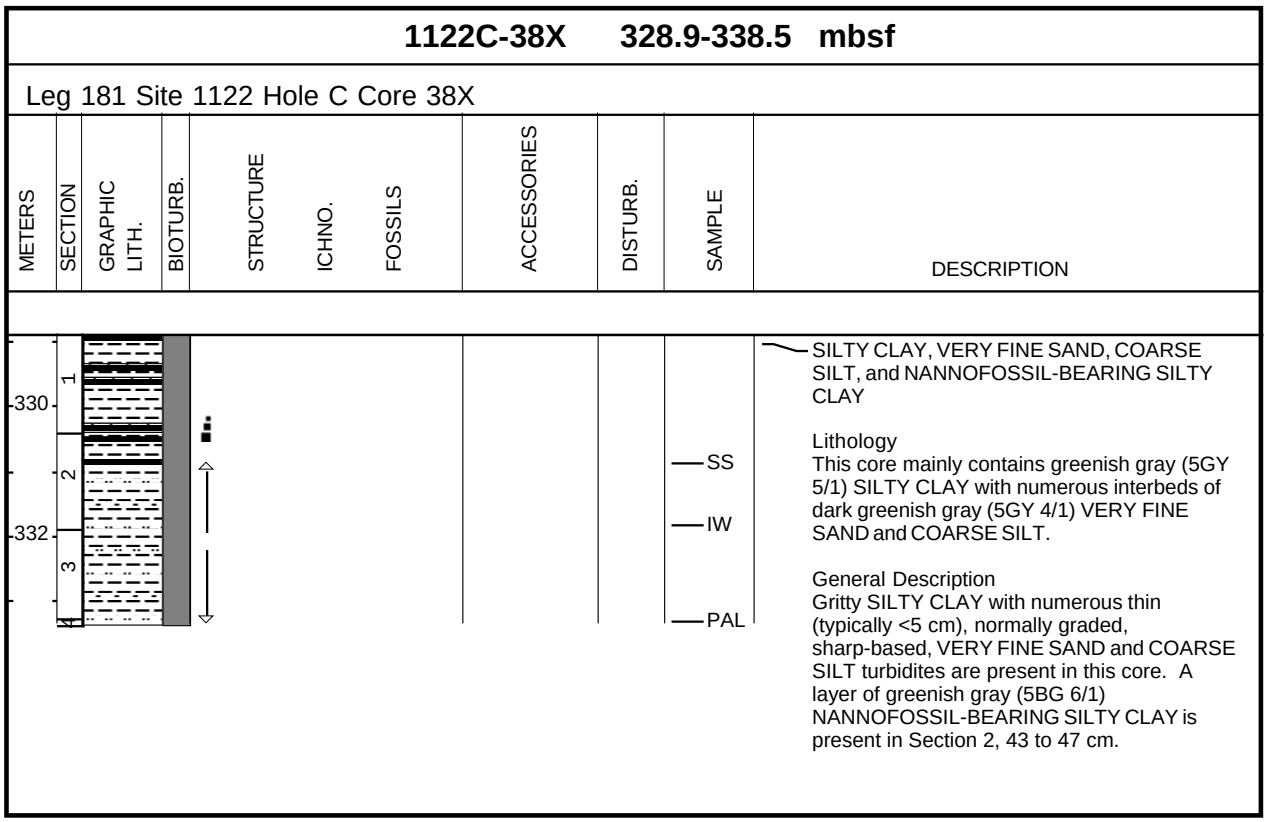
Core Photo


1122C-36X 309.6-319.3 mbsf
Leg 181 Site 1122 Hole C Core 36X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
310
312
314
316
318
1
2
3
4
5
6
7
PAL
VERY FINE SAND and SILTY CLAY
Lithology
This core contains a sucession of thin (<3 cm), dark greenish gray (5GY 5/1) VERY FINE SAND turbidites interbedded with greenish gray (5G 5/1) SILTY CLAY.
General Description
Turbidites are normally graded and sharp-based. In Section 2, 46 to 54 cm, the SILTY CLAY is bluish gray (5B 6/1) with a gradational base. SILTY CLAY beds are heavily mottled and show faint color banding.

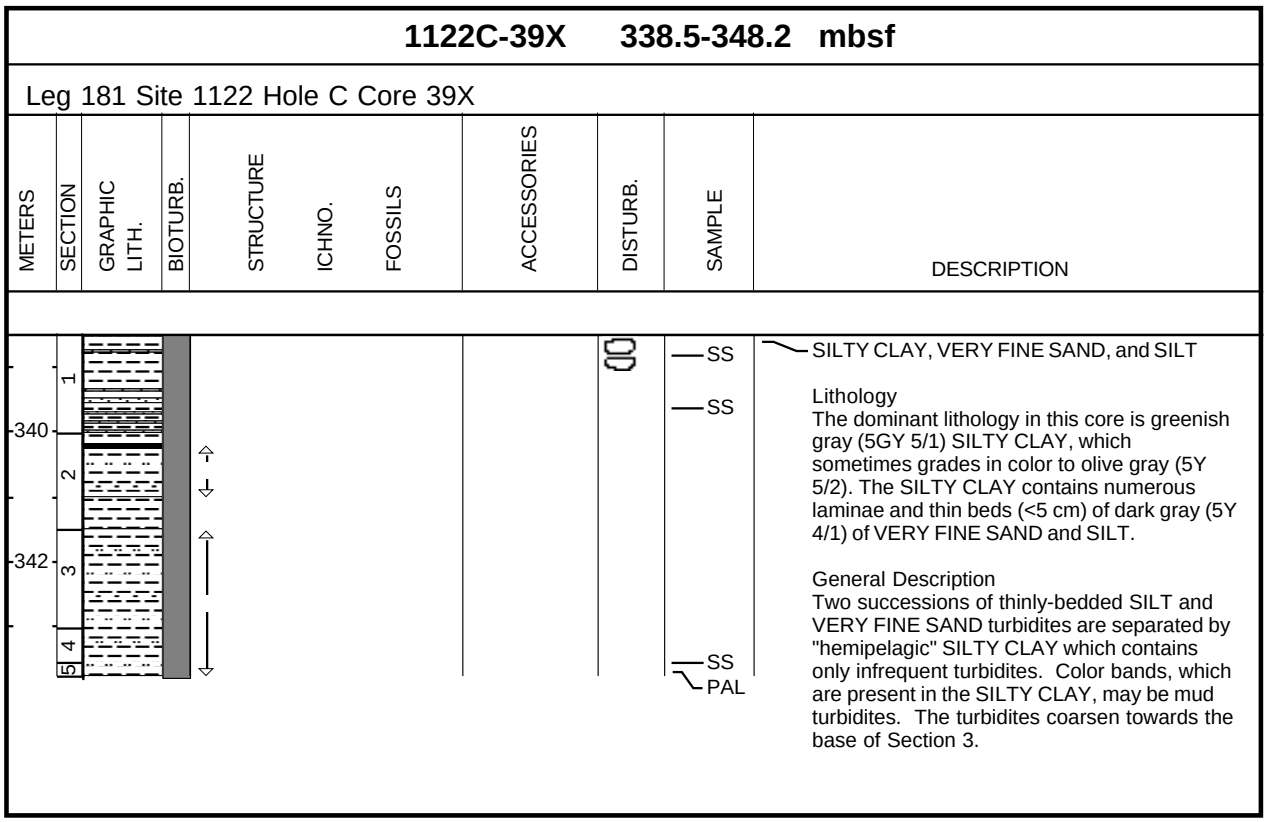
Core Photo


1122C-37X 319.3-328.9 mbsf
Leg 181 Site 1122 Hole C Core 37X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
320
322
324
326
328
1
2
3
4
5
6
7
SS
SS
PAL
SILTY CLAY, SILT, VERY FINE SAND, and TEPHRA
Lithology
This core contains dark greenish gray (5G 4/1) VERY FINE SAND and SILT and greenish gray (5GY 5/1 and 6/1) SILTY CLAY. Pinkish gray (5YR 6/2) TEPHRA layers occur in Section 1, 97.5 to 98 cm, and in Section 6, 125 to 128 cm.
General Description
This core has a succession of dark greenish gray (5GY 4/1) VERY FINE SAND turbidites and greenish gray (5 GY 5/1) SILTY CLAY interbeds. The SILTY CLAY is mottled and shows some gradational color changes. Towards the base of Section 2, the color grades from 5GY 6/1 to 5GY 5/1. The SILTY CLAY beds show moderate bioturbation. The turbidites have sharp basal contacts, are graded, and <2 cm thick. Biscuiting is abundant throughout.

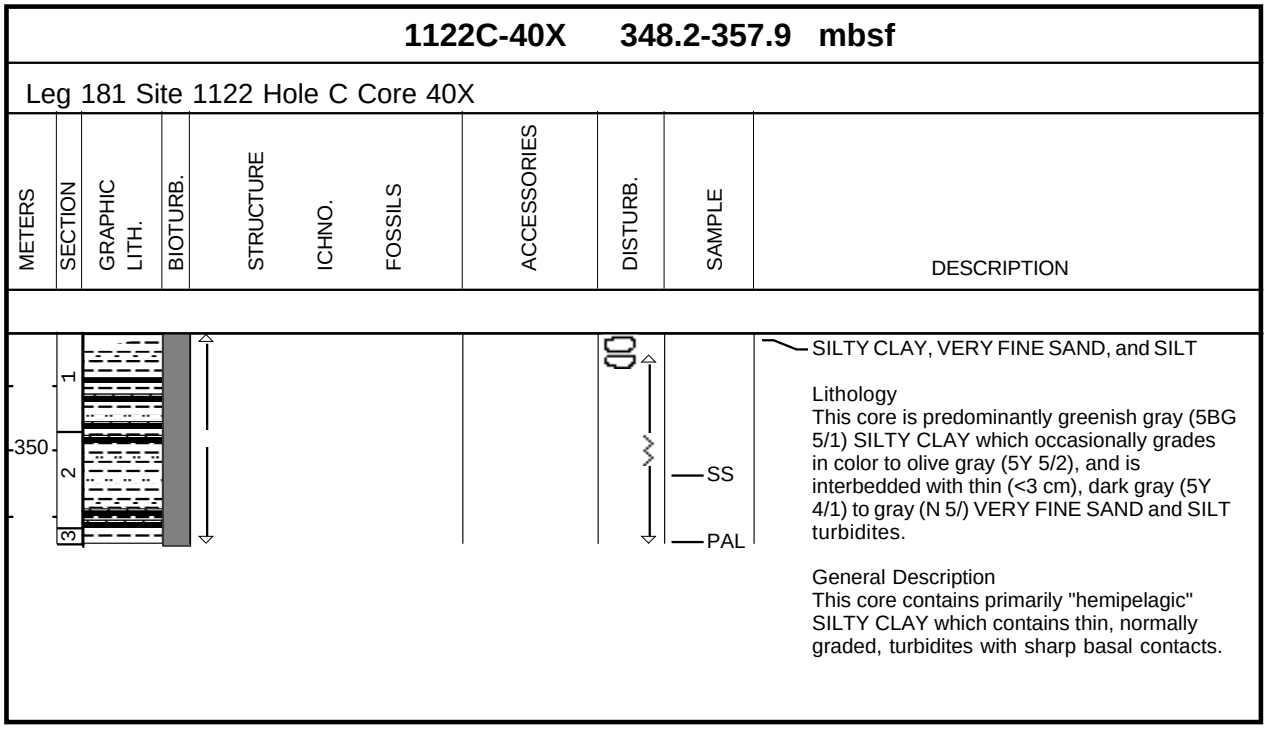
Core Photo


1122C-38X 328.9-338.5 mbsf
Leg 181 Site 1122 Hole C Core 38X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
330
332
1
2
3
4
SS
IW
PAL
SILTY CLAY, VERY FINE SAND, COARSE SILT, and NANNOFOSSIL-BEARING SILTY CLAY
Lithology
This core mainly contains greenish gray (5GY 5/1) SILTY CLAY with numerous interbeds of dark greenish gray (5GY 4/1) VERY FINE SAND and COARSE SILT.
General Description
Gritty SILTY CLAY with numerous thin (typically <5 cm), normally graded, sharp-based, VERY FINE SAND and COARSE SILT turbidites are present in this core. A layer of greenish gray (5BG 6/1) NANNOFOSSIL-BEARING SILTY CLAY is present in Section 2, 43 to 47 cm.

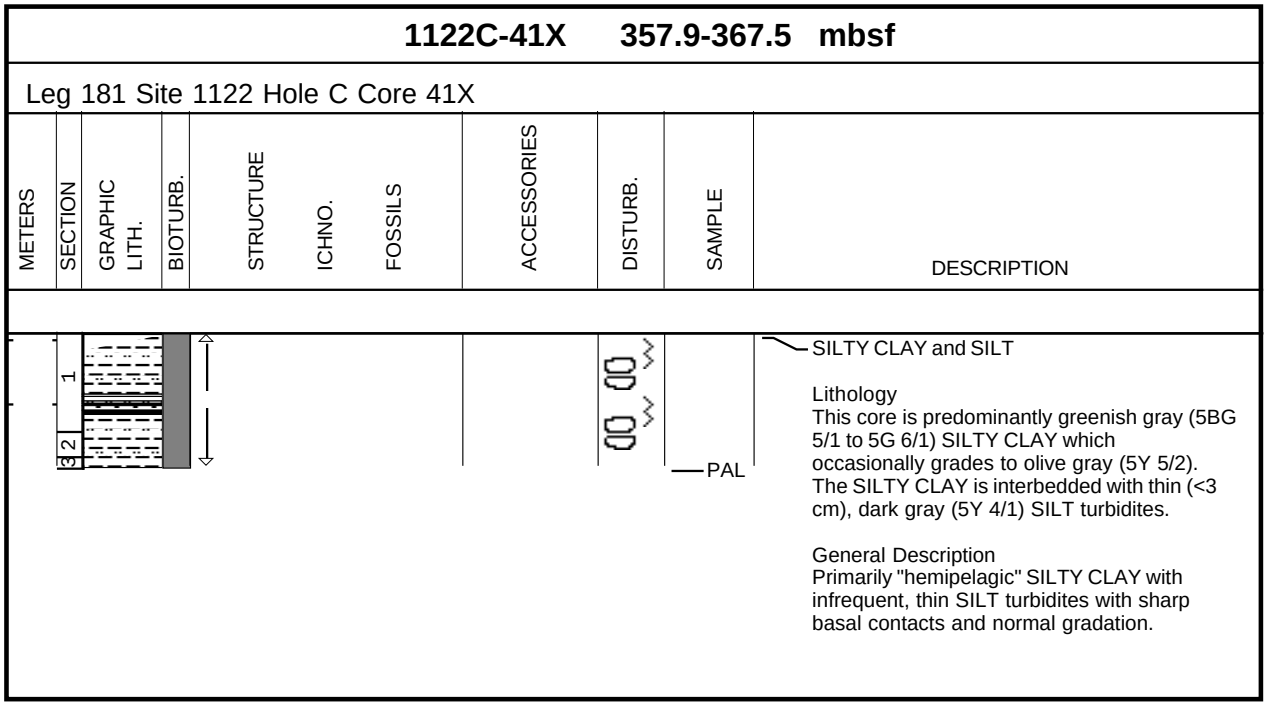
Core Photo


1122C-39X 338.5-348.2 mbsf
Leg 181 Site 1122 Hole C Core 39X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
340
342
1
2
3
4
5
SS
SS
SS
PAL
SILTY CLAY, VERY FINE SAND, and SILT
Lithology
The dominant lithology in this core is greenish gray (5GY 5/1) SILTY CLAY, which sometimes grades in color to olive gray (5Y 5/2). The SILTY CLAY contains numerous laminae and thin beds (<5 cm) of dark gray (5Y 4/1) of VERY FINE SAND and SILT.
General Description
Two successions of thinly-bedded SILT and VERY FINE SAND turbidites are separated by "hemipelagic" SILTY CLAY which contains only infrequent turbidites. Color bands, which are present in the SILTY CLAY, may be mud turbidites. The turbidites coarsen towards the base of Section 3.

Core Photo


1122C-40X 348.2-357.9 mbsf
Leg 181 Site 1122 Hole C Core 40X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
350
1
2
3
SS
PAL
SILTY CLAY, VERY FINE SAND, and SILT
Lithology
This core is predominantly greenish gray (5BG 5/1) SILTY CLAY which occasionally grades in color to olive gray (5Y 5/2), and is interbedded with thin (<3 cm), dark gray (5Y 4/1) to gray (N 5/) VERY FINE SAND and SILT turbidites.
General Description
This core contains primarily "hemipelagic" SILTY CLAY which contains thin, normally graded, turbidites with sharp basal contacts.

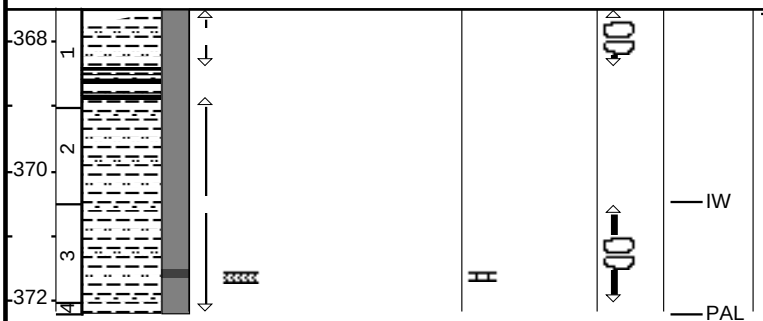
Core Photo


1122C-41X 357.9-367.5 mbsf
Leg 181 Site 1122 Hole C Core 41X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
1
2
3
PAL
SILTY CLAY and SILT
Lithology
This core is predominantly greenish gray (5BG 5/1 to 5G 6/1) SILTY CLAY which occasionally grades to olive gray (5Y 5/2). The SILTY CLAY is interbedded with thin (<3 cm), dark gray (5Y 4/1) SILT turbidites.
General Description
Primarily "hemipelagic" SILTY CLAY with infrequent, thin SILT turbidites with sharp basal contacts and normal gradation.

Core Photo

1122C-42X 367.5-377.2 mbsf

Leg 181 Site 1122 Hole C Core 42X

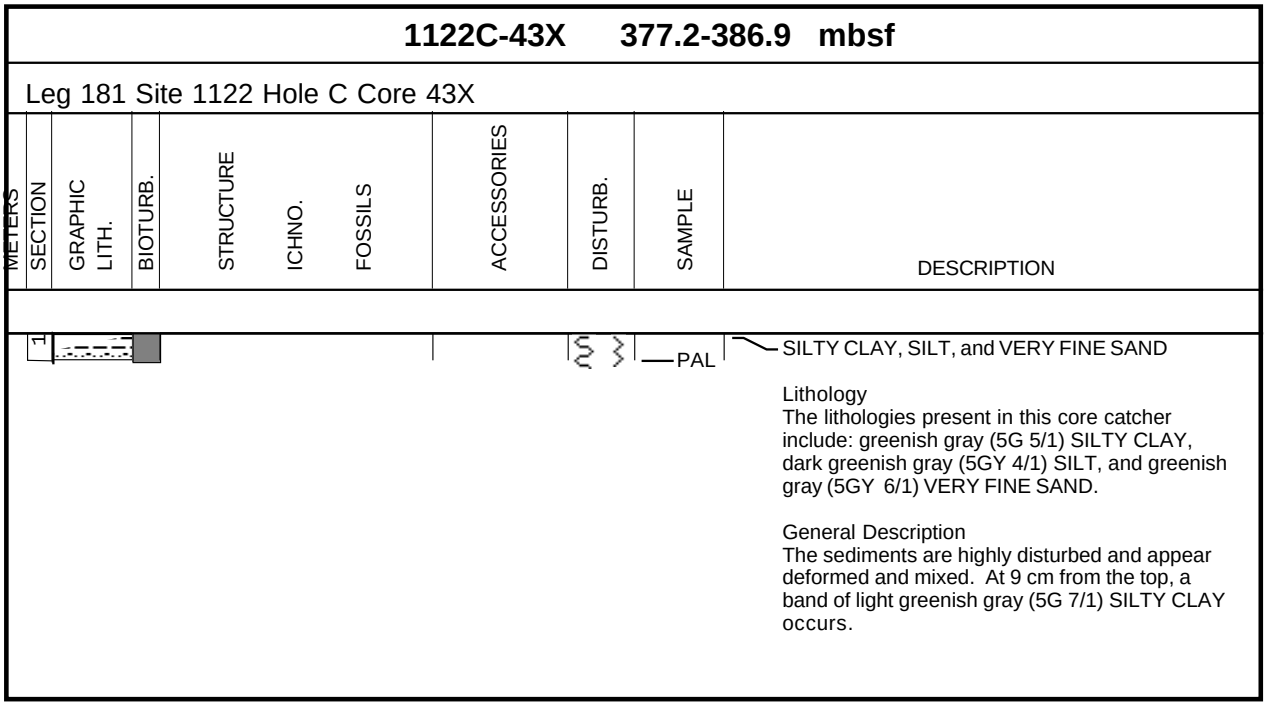


SILTY CLAY, SILT, and FINE SAND

Lithology
This core comprises greenish gray (5GY 5/1) and olive gray (5Y 5/3) SILTY CLAY. Greenish gray (5GY 4/1) SILT and FINE SAND are also present.

General description
The greenish gray (5GY 5/1) SILTY CLAY shows interbeds of greenish gray (5GY 5/1) FINE SAND and SILT throughout the core. Olive gray (5Y 5/3) SILTY CLAY occurs as approximately 4 cm-thick layers in Section 1, 28 to 30 cm, and 75 to 79 cm, and in Section 3, 20 to 24 cm, and 50 to 53 cm. These intervals, as well as the base of Section 3, show extreme
biscuiting. Above these olive gray layers, light gray SILTY CLAY intervals are present in Section 1, 73 to 75 cm, and Section 3, 41 to 49 cm. The light greenish gray (5GY 6/1) carbonate cementation in Section 3, 108 to 114 cm, contains Zoophycos.

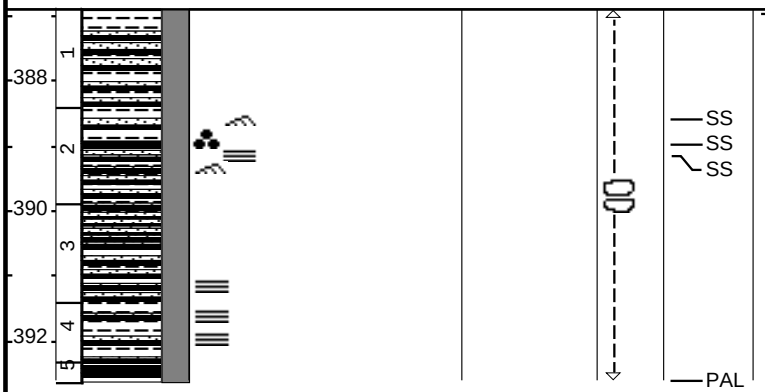
Core Photo


1122C-43X 377.2-386.9 mbsf
Leg 181 Site 1122 Hole C Core 43X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
1
PAL
SILTY CLAY, SILT, and VERY FINE SAND
Lithology
The lithologies present in this core catcher include: greenish gray (5G 5/1) SILTY CLAY, dark greenish gray (5GY 4/1) SILT, and greenish gray (5GY 6/1) VERY FINE SAND.
General Description
The sediments are highly disturbed and appear deformed and mixed. At 9 cm from the top, a band of light greenish gray (5G 7/1) SILTY CLAY occurs.

Core Photo

1122C-44X 386.9-396.6 mbsf

Leg 181 Site 1122 Hole C Core 44X



DESCRIPTION

SILTY CLAY, VERY FINE SAND, FINE SAND, and TEPHRA

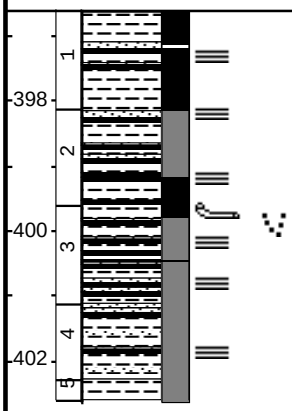
Lithology
Greenish gray (5G 5/1) SILTY CLAY with dark gray (N 4) interbeds of FINE SAND was recovered in this core. Pinkish gray (5YR 6/2) TEPHRA is present in Section 2, 57 to 60 cm.

General Description
The greenish gray SILTY CLAY contains interbeds of VERY FINE to FINE SAND with conspicuous laminations locally accentuated by forminifers and carbonate debris (Section 2, 16 to 78 cm). Some beds are rippled. All have sharp bases and tops and appear ungraded; they are probably boundary current deposits. SILTY CLAY color and faint textural banding suggests subtly changing hydraulic conditions.

Core Photo

1122C-45X 396.6-406.2 mbsf

Leg 181 Site 1122 Hole C Core 45X

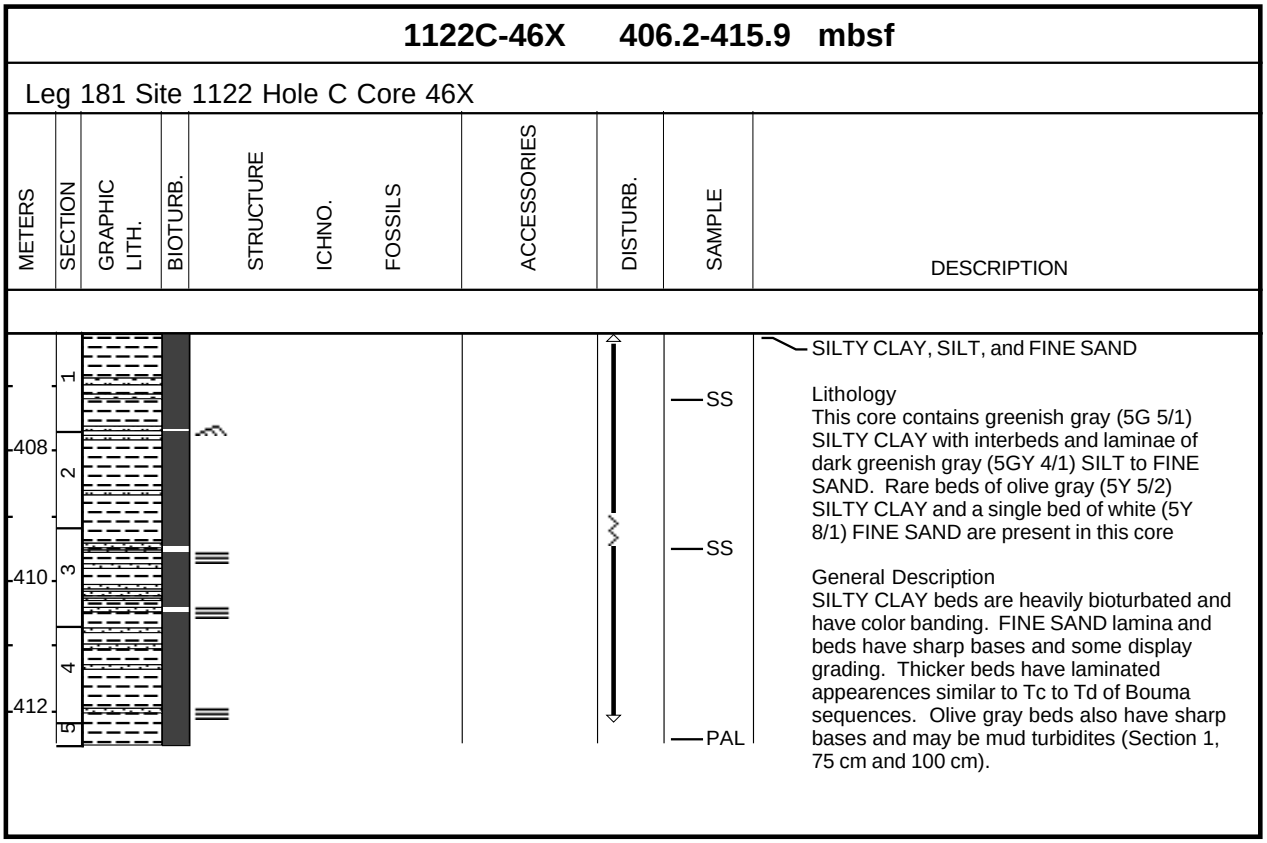


SILTY CLAY, FINE SAND, and SILT

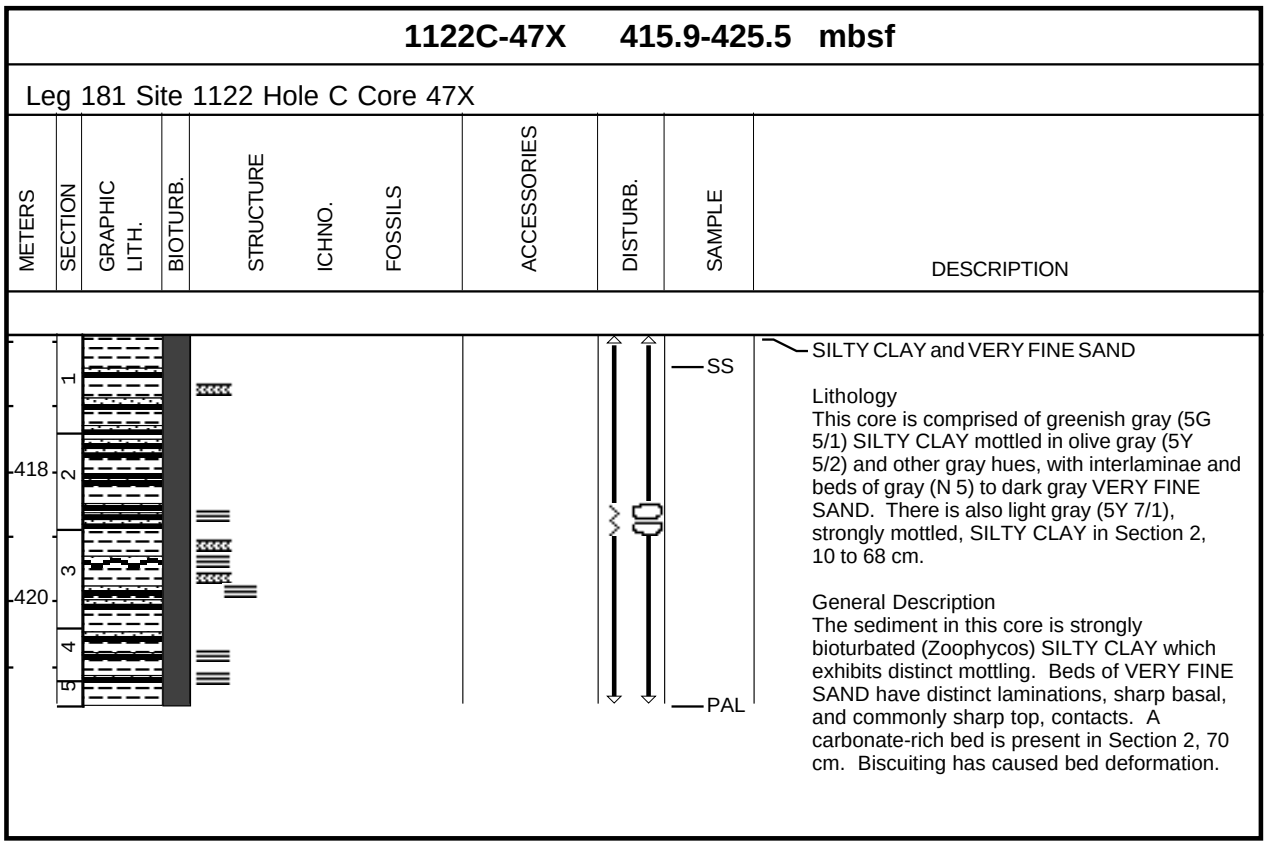
Lithology
The sediment in this core is greenish gray (5G 6/1) SILTY CLAY with laminae and interbeds of dark greenish gray (5GY 4/1) to dark gray (N 4) FINE SAND and SILT and olive gray (5Y 5/2) FINE SAND and SILTY CLAY beds.

General Description
SILTY CLAY is color mottled due to bioturbation, noted by traces of Terebellina (?) and Gyrolithes. Color banding occurs with dark green laminae in the SILTY CLAY. FINE SAND beds have sharp bases with rip-up clasts, and often have sharp tops as well. They are finely laminated, mainly terrigenous, with occasional carbonate laminated FINE SAND.

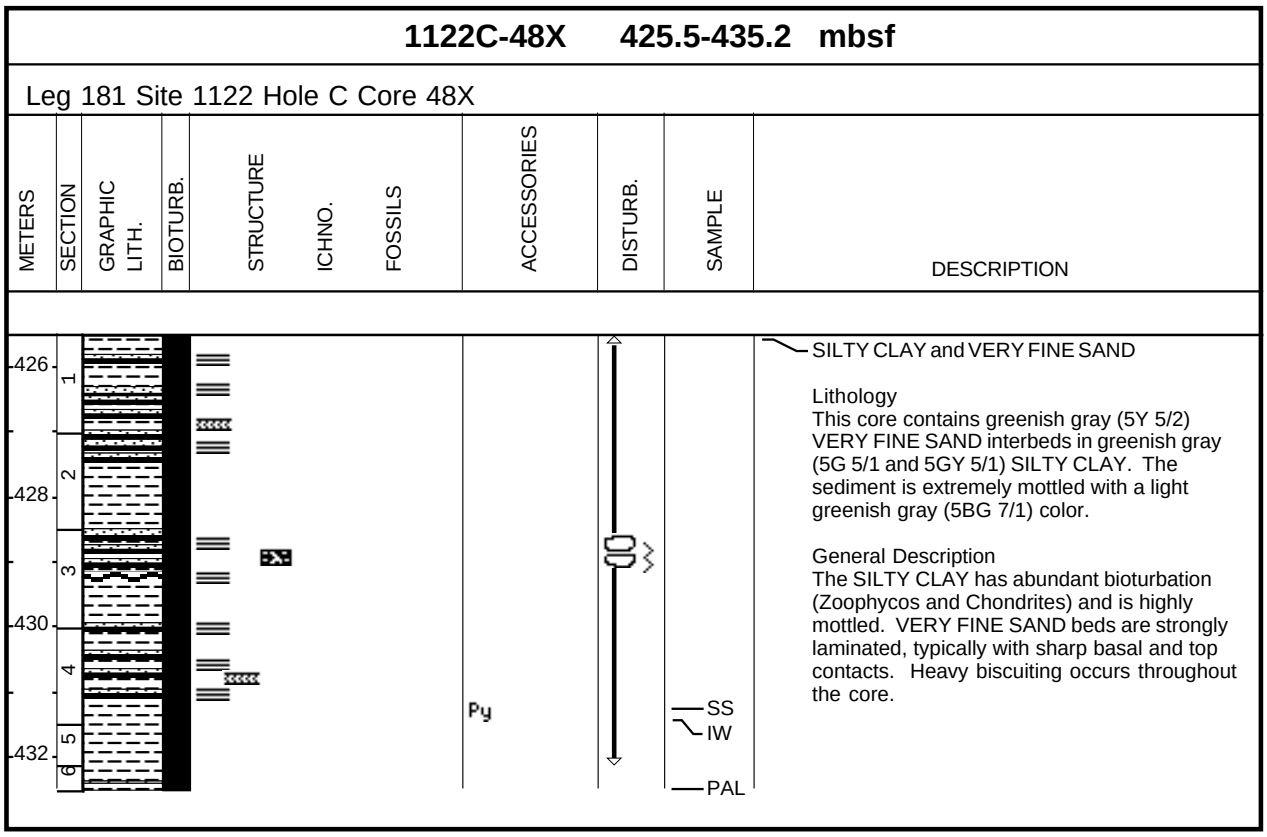
Core Photo


1122C-46X 406.2-415.9 mbsf
Leg 181 Site 1122 Hole C Core 46X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
408
410
412
1
2
3
4
5
SS
SS
PAL
SILTY CLAY, SILT, and FINE SAND
Lithology
This core contains greenish gray (5G 5/1) SILTY CLAY with interbeds and laminae of dark greenish gray (5GY 4/1) SILT to FINE SAND. Rare beds of olive gray (5Y 5/2) SILTY CLAY and a single bed of white (5Y 8/1) FINE SAND are present in this core
General Description
SILTY CLAY beds are heavily bioturbated and have color banding. FINE SAND lamina and beds have sharp bases and some display grading. Thicker beds have laminated appearences similar to Tc to Td of Bouma sequences. Olive gray beds also have sharp bases and may be mud turbidites (Section 1, 75 cm and 100 cm).

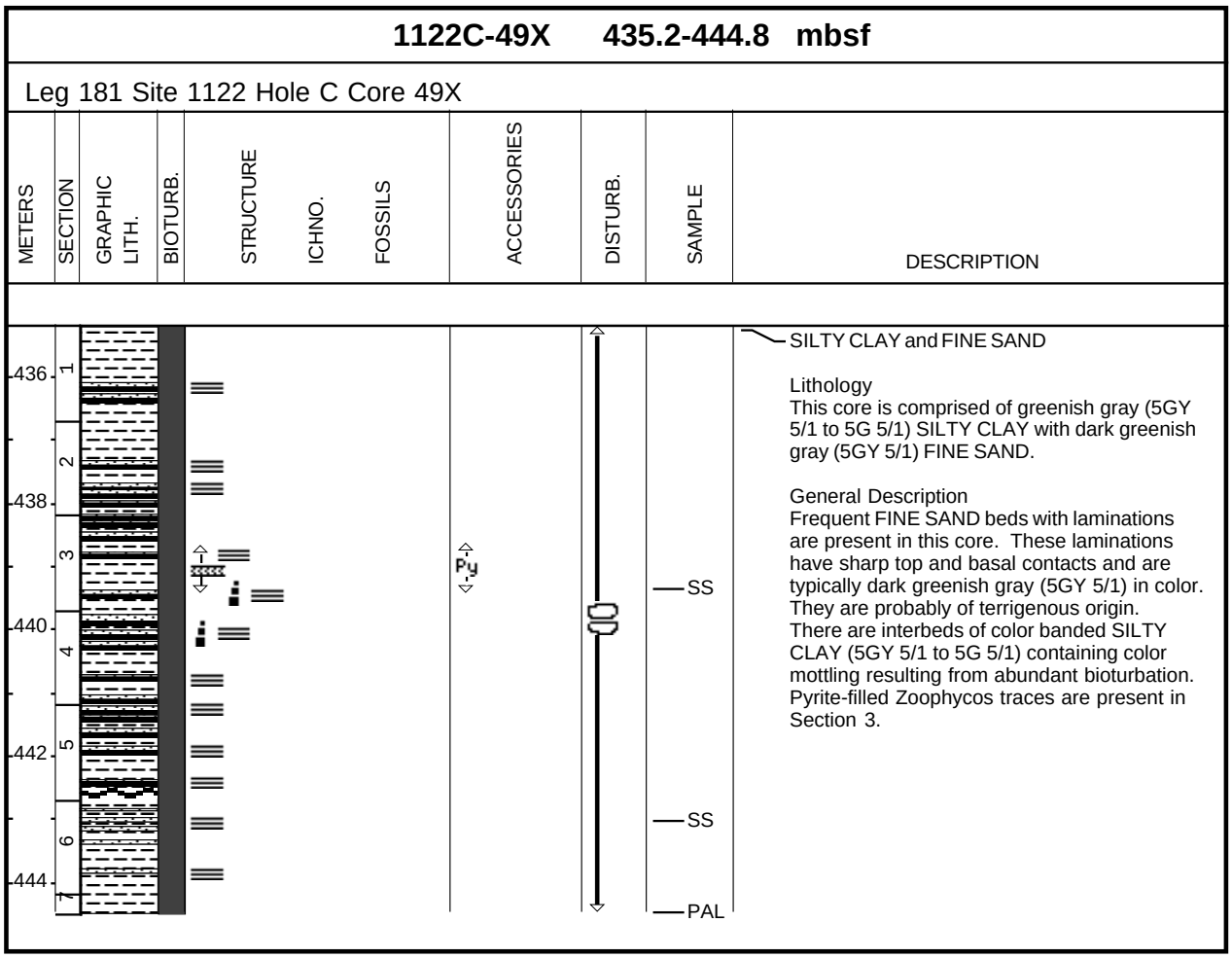
Core Photo


1122C-47X 415.9-425.5 mbsf
Leg 181 Site 1122 Hole C Core 47X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
418
420
1
2
3
4
5
SS
PAL
SILTY CLAY and VERY FINE SAND
Lithology
This core is comprised of greenish gray (5G 5/1) SILTY CLAY mottled in olive gray (5Y 5/2) and other gray hues, with interlaminae and beds of gray (N 5) to dark gray VERY FINE SAND. There is also light gray (5Y 7/1), strongly mottled, SILTY CLAY in Section 2, 10 to 68 cm.
General Description
The sediment in this core is strongly bioturbated (Zoophycos) SILTY CLAY which exhibits distinct mottling. Beds of VERY FINE SAND have distinct laminations, sharp basal, and commonly sharp top, contacts. A carbonate-rich bed is present in Section 2, 70 cm. Biscuiting has caused bed deformation.

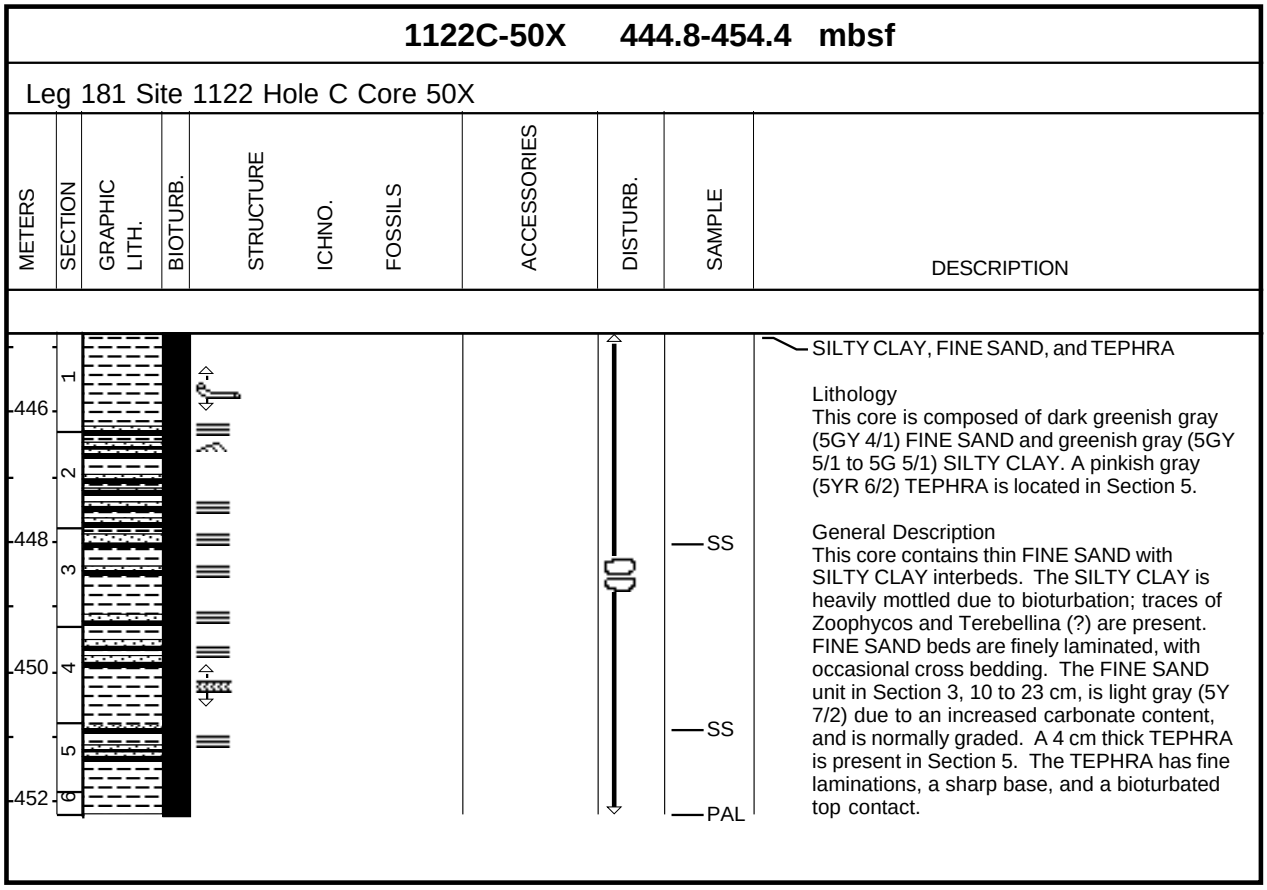
Core Photo


1122C-48X 425.5-435.2 mbsf
Leg 181 Site 1122 Hole C Core 48X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
426
428
430
432
1
2
3
4
5
6
Py
SS
IW
PAL
SILTY CLAY and VERY FINE SAND
Lithology
This core contains greenish gray (5Y 5/2) VERY FINE SAND interbeds in greenish gray (5G 5/1 and 5GY 5/1) SILTY CLAY. The sediment is extremely mottled with a light greenish gray (5BG 7/1) color.
General Description
The SILTY CLAY has abundant bioturbation (Zoophycos and Chondrites) and is highly mottled. VERY FINE SAND beds are strongly laminated, typically with sharp basal and top contacts. Heavy biscuiting occurs throughout the core.

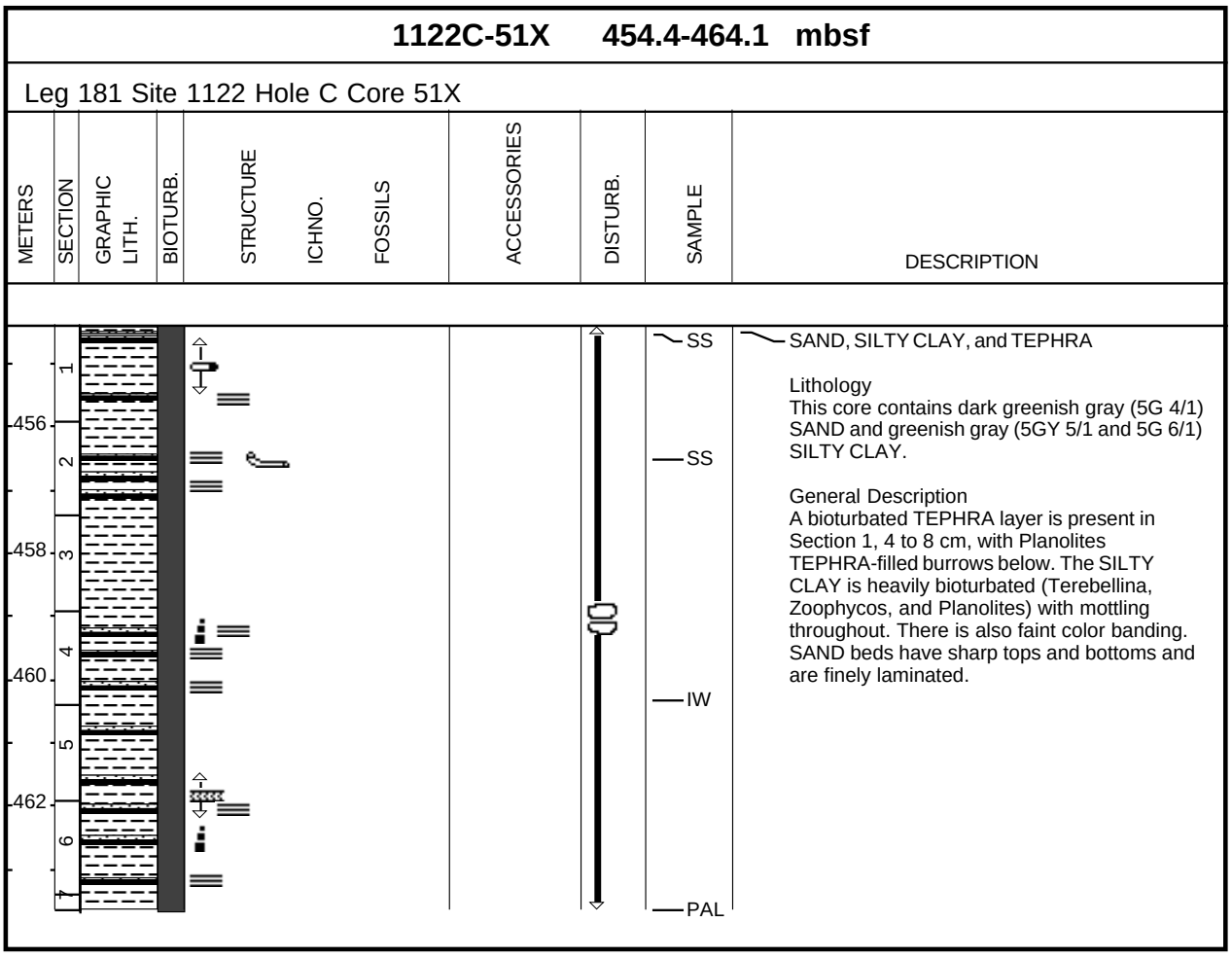
Core Photo


1122C-49X 435.2-444.8 mbsf
Leg 181 Site 1122 Hole C Core 49X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
436
438
440
442
444
1
2
3
4
5
6
7
Py
SS
SS
PAL
SILTY CLAY and FINE SAND
Lithology
This core is comprised of greenish gray (5GY 5/1 to 5G 5/1) SILTY CLAY with dark greenish gray (5GY 5/1) FINE SAND.
General Description
Frequent FINE SAND beds with laminations are present in this core. These laminations have sharp top and basal contacts and are typically dark greenish gray (5GY 5/1) in color. They are probably of terrigenous origin.
There are interbeds of color banded SILTY CLAY (5GY 5/1 to 5G 5/1) containing color mottling resulting from abundant bioturbation. Pyrite-filled Zoophycos traces are present in Section 3.

Core Photo


1122C-50X 444.8-454.4 mbsf
Leg 181 Site 1122 Hole C Core 50X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
446
448
450
452
1
2
3
4
5
6
SS
SS
PAL
SILTY CLAY, FINE SAND, and TEPHRA
Lithology
This core is composed of dark greenish gray (5GY 4/1) FINE SAND and greenish gray (5GY 5/1 to 5G 5/1) SILTY CLAY. A pinkish gray (5YR 6/2) TEPHRA is located in Section 5.
General Description
This core contains thin FINE SAND with SILTY CLAY interbeds. The SILTY CLAY is heavily mottled due to bioturbation; traces of Zoophycos and Terebellina (?) are present. FINE SAND beds are finely laminated, with occasional cross bedding. The FINE SAND unit in Section 3, 10 to 23 cm, is light gray (5Y 7/2) due to an increased carbonate content, and is normally graded. A 4 cm thick TEPHRA is present in Section 5. The TEPHRA has fine laminations, a sharp base, and a bioturbated top contact.

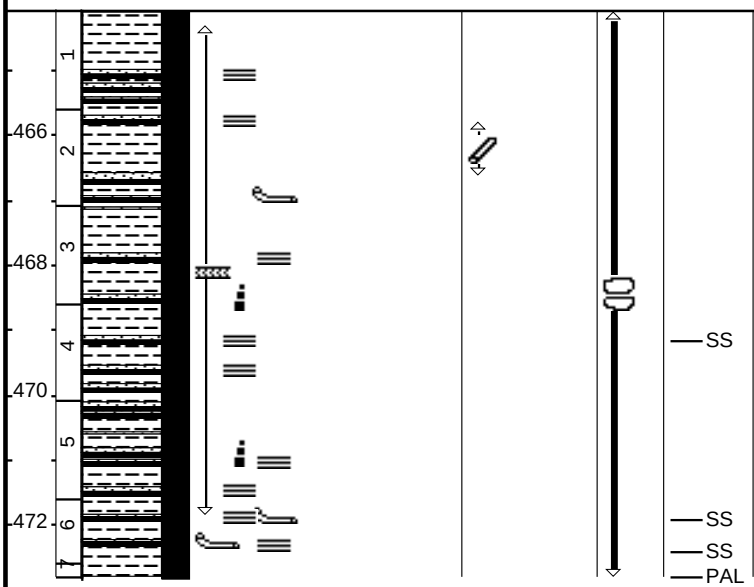
Core Photo


1122C-51X 454.4-464.1 mbsf
Leg 181 Site 1122 Hole C Core 51X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
456
458
460
462
1
2
3
4
5
6
7
SS
SS
IW
PAL
SAND, SILTY CLAY, and TEPHRA
Lithology
This core contains dark greenish gray (5G 4/1) SAND and greenish gray (5GY 5/1 and 5G 6/1) SILTY CLAY.
General Description
A bioturbated TEPHRA layer is present in Section 1, 4 to 8 cm, with Planolites TEPHRA-filled burrows below. The SILTY CLAY is heavily bioturbated (Terebellina, Zoophycos, and Planolites) with mottling throughout. There is also faint color banding. SAND beds have sharp tops and bottoms and are finely laminated.

Core Photo

1122C-52X 464.1-473.4 mbsf

Leg 181 Site 1122 Hole C Core 52X



SILTY CLAY and VERY FINE SAND

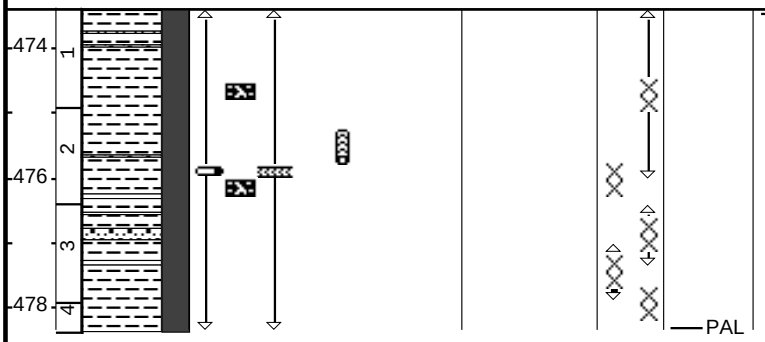
Lithology
This core contains dark greenish gray (5GY 4/1) to greenish gray (5G 5/1) SILTY CLAY and dark greenish gray (5GY 4/1) VERY FINE SAND.

General Description
The core contains heavily bioturbated SILTY CLAY, which is highly mottled dark greenish gray (5GY 4/1) to greenish gray (5G 5/1) in color. There is faint color banding throughout. VERY FINE SAND interbeds are finely laminated with sharp tops and bottoms. SILTY CLAY above the VERY FINE SAND beds is gray (5Y 6/2) and highly bioturbated. Zoophycos occur abundantly throughout and Terebellina and Anconichnus are also present. Below a sharp contact in Section 3, 92 cm, the SILTY CLAY reverts back to greenish gray. A gradational contact in the SILTY CLAY in Section 6, 77 cm, delineates a color change to pale olive (5Y 6/3). This interval is rich in nannofossils.

Core Photo

1122C-53X 473.4-483.0 mbsf

Leg 181 Site 1122 Hole C Core 53X



SILTY CLAY and FINE SAND

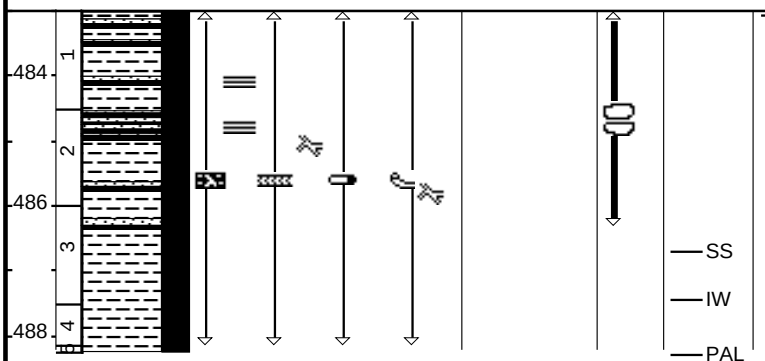
Lithology
The core primarily contains layers of dark greenish gray (5G 4/1), greenish gray (5G 5/1 to 5BG 6/1), and nannofossil-rich layers of light brownish gray (2.5Y 6/2) to gray (5Y 6/1) SILTY CLAY. Interspersed with the SILTY CLAY are FINE SAND beds of dark greenish gray (5G 4/1).

General Description
Coring disturbance caused varying states of brecciation, such that the individual location and orientation of pieces are uncertain. The FINE SAND bed in Section 3 is laminated. The core is bioturbated, with Zoophycos and Planolites present throughout. Teichichnus is observed in Section 2, 58 cm, and small Chondrites are observed in the lighter colored layers of SILTY CLAY.

Core Photo

1122C-54X 483.0-492.7 mbsf

Leg 181 Site 1122 Hole C Core 54X



DESCRIPTION

SILTY CLAY and VERY FINE SAND

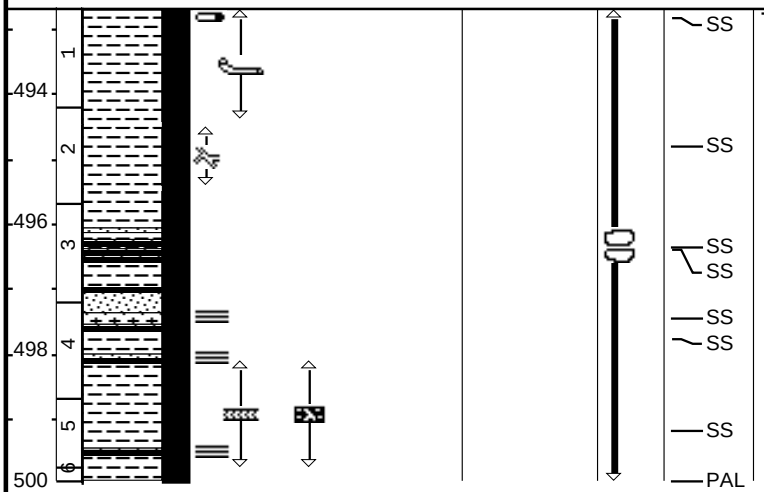
Lithology
This core contains dark greenish gray (5G 4/1) and greenish gray (5GY 6/1 to 5G 6/1) SILTY CLAY and greenish gray (5GY 5/1) VERY FINE SAND.

General Description
Sections 1 and 2 contain greenish gray (5GY 6/1 to 5G 6/1) SILTY CLAY interbedded with VERY FINE SAND with sharp upper and lower contacts which display laminae. The SILTY CLAY is highly mottled and shows frequent color banding. Nannofossil-rich layers (5GY 6/1) occur in Section 1, 40 to 51, 95 to 109, 133 to 142 cm; Section 2, 14 to 28, 46 to 55 cm; Section 3, 22 to 30 cm. Below Section 3, 30 cm, only SILTY CLAY (5GY 5/1) is present. Bioturbation is abundant throughout and trace fossils include Terebellina (large), Planolites, Chondrites, Zoophycos, and Thalassinoides.

Core Photo

1122C-55X 492.7-502.3 mbsf

Leg 181 Site 1122 Hole C Core 55X



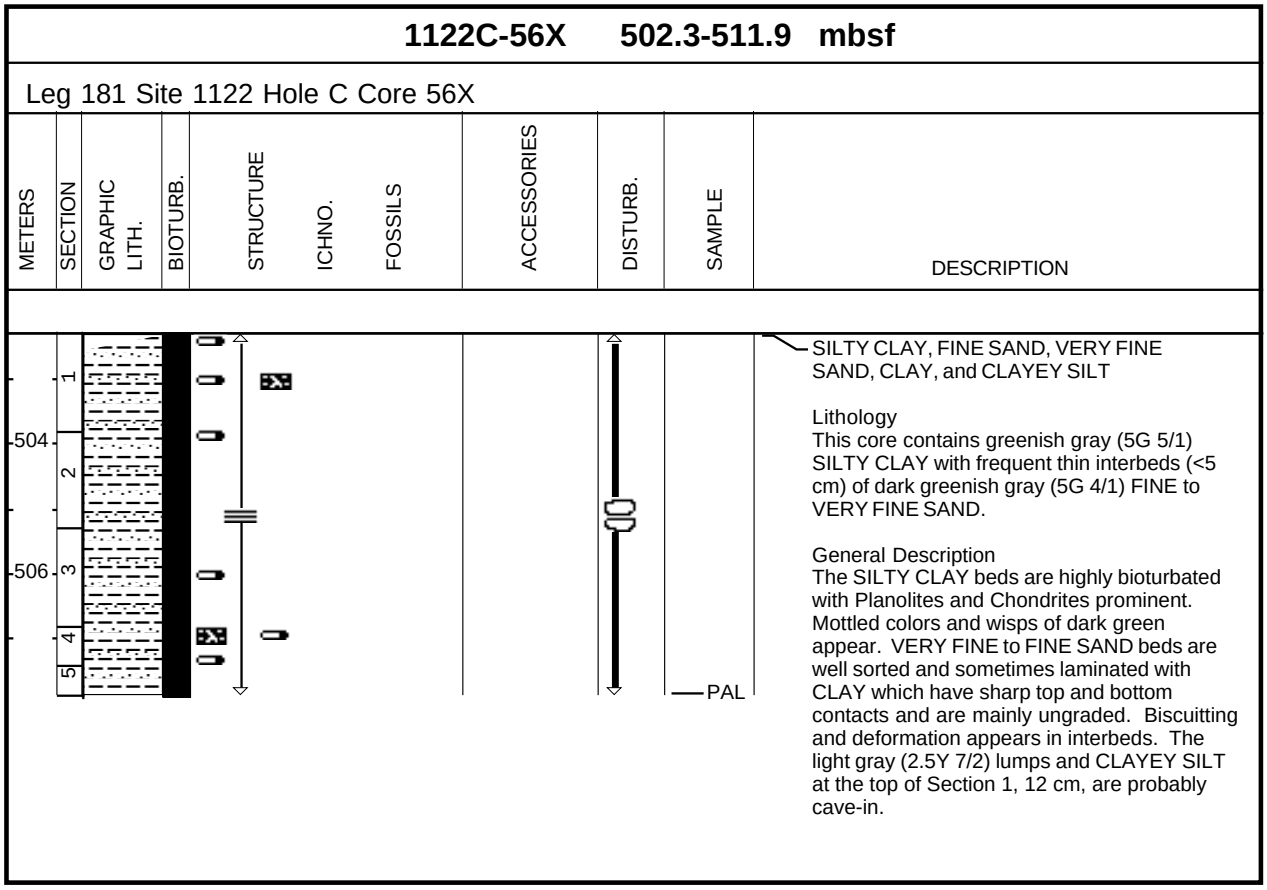
DESCRIPTION

SILTY CLAY and VERY FINE SAND

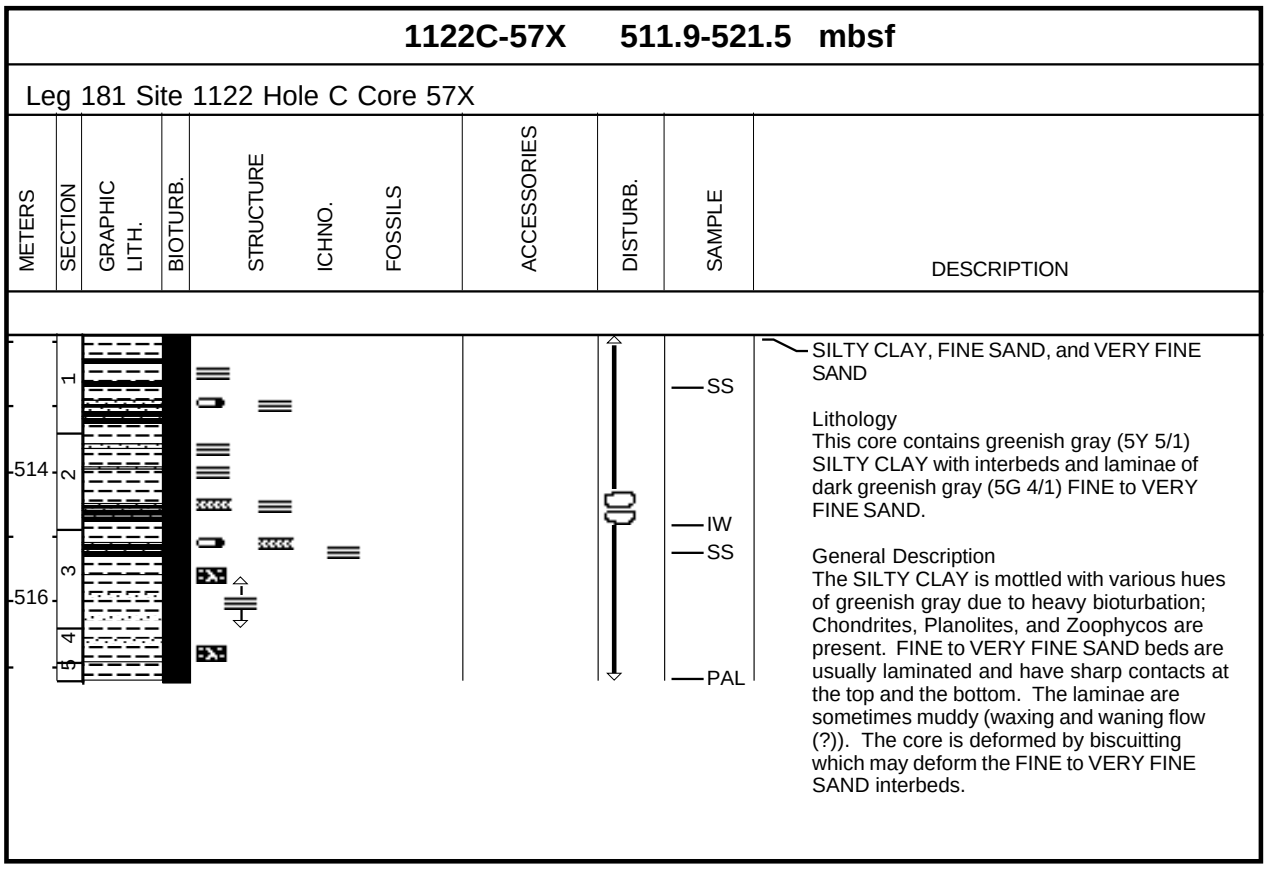
Lithology
This core contains SILTY CLAY of different colors (listed below) and olive (5Y 5/2) VERY FINE SAND.

General Description
The SILTY CLAY exhibits gradational color changes throughout. The sediment in Section 1 is greenish gray (5G 4/1), and a gradational change from yellowish brown to light reddish brown (10YR 6/4) occurs in Section 2. In Section 3, a color change to 10 YR 6/3 occurs and in Section 4, there is a color change from 10YR 6/3 to pale yellow (5Y 7/3). Another color change occurs in Section 5 from pale yellow to pale olive (5Y 6/3). The SILTY CLAY is heavily bioturbated with trace fossils: Terebellina (<2 mm) is present in Section 1, Thalassinoides in Section 2, and Zoophycos and Chondrites in Sections 4 and 5. The SAND bed at the base of Section 3 and in Section 4, top 19 cm, is normally graded and has fine laminations. Color grades from pale brown (10YR 6/3) to olive (5Y 5/2) VERY FINE SAND. The bottom contact is sharp with white (10YR 8/1) SILTY CLAY. This interval is rich in nannofossils and contains foraminifers. Other VERY FINE SAND beds in Section 3 and 5 are typically <4 cm thick and have sharp top and bottom contacts.

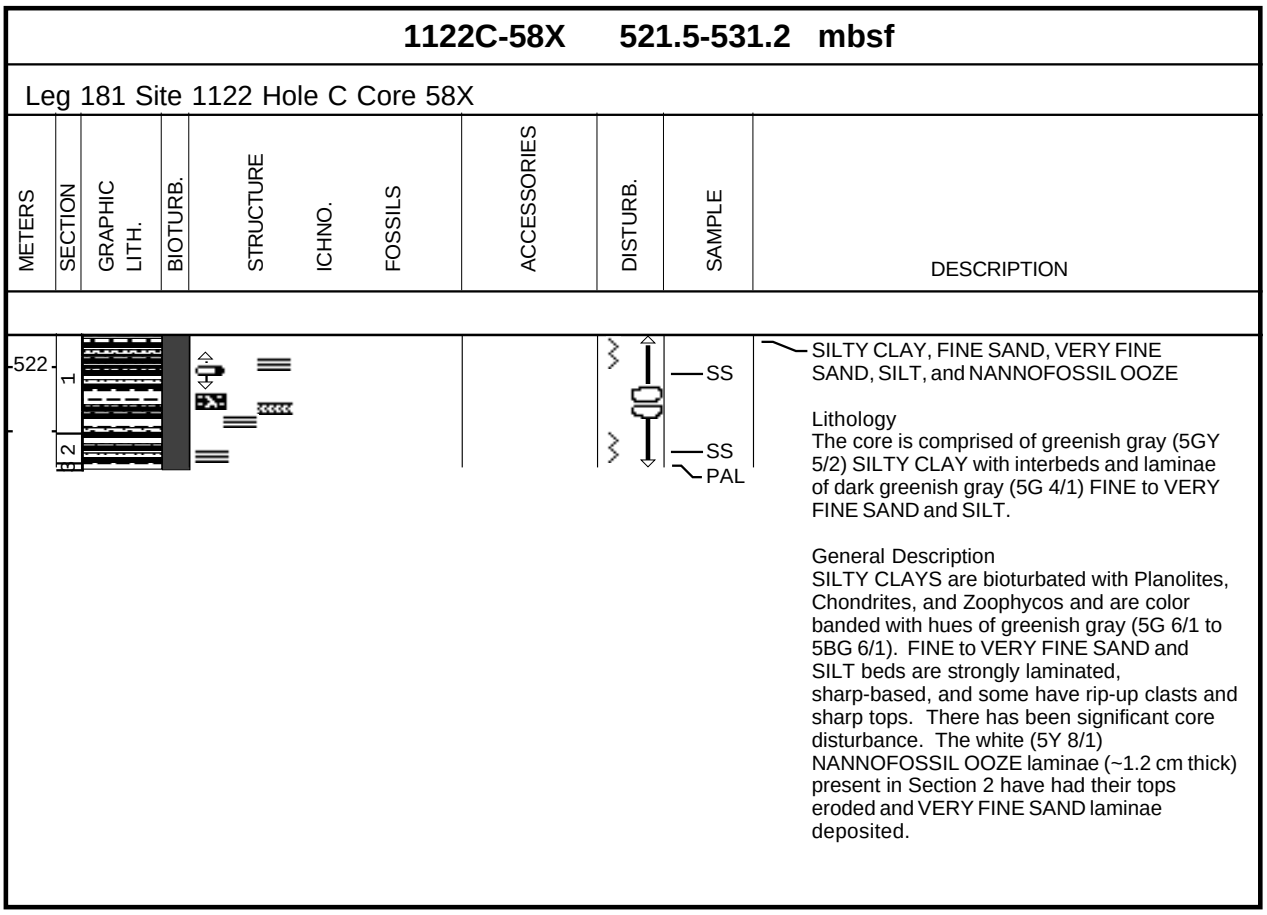
Core Photo


1122C-56X 502.3-511.9 mbsf
Leg 181 Site 1122 Hole C Core 56X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
504
506
1
2
3
4
5
PAL
SILTY CLAY, FINE SAND, VERY FINE SAND, CLAY, and CLAYEY SILT
Lithology
This core contains greenish gray (5G 5/1) SILTY CLAY with frequent thin interbeds (<5 cm) of dark greenish gray (5G 4/1) FINE to VERY FINE SAND.
General Description
The SILTY CLAY beds are highly bioturbated with Planolites and Chondrites prominent. Mottled colors and wisps of dark green appear. VERY FINE to FINE SAND beds are well sorted and sometimes laminated with CLAY which have sharp top and bottom contacts and are mainly ungraded. Biscuitting and deformation appears in interbeds. The light gray (2.5Y 7/2) lumps and CLAYEY SILT at the top of Section 1, 12 cm, are probably cave-in.

Core Photo

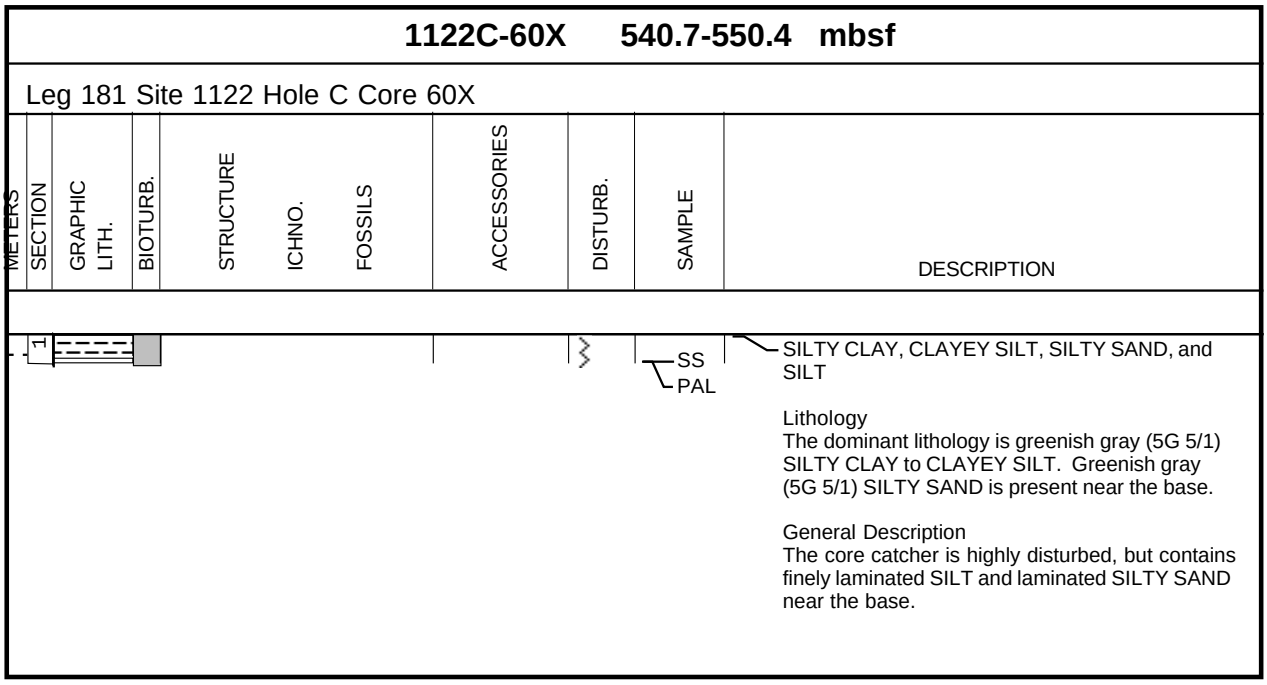

1122C-57X 511.9-521.5 mbsf
Leg 181 Site 1122 Hole C Core 57X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
514
516
1
2
3
4
5
SS
IW
SS
PAL
SILTY CLAY, FINE SAND, and VERY FINE SAND
Lithology
This core contains greenish gray (5Y 5/1) SILTY CLAY with interbeds and laminae of dark greenish gray (5G 4/1) FINE to VERY FINE SAND.
General Description
The SILTY CLAY is mottled with various hues of greenish gray due to heavy bioturbation; Chondrites, Planolites, and Zoophycos are present. FINE to VERY FINE SAND beds are usually laminated and have sharp contacts at the top and the bottom. The laminae are sometimes muddy (waxing and waning flow (?)). The core is deformed by biscuitting which may deform the FINE to VERY FINE SAND interbeds.

Core Photo

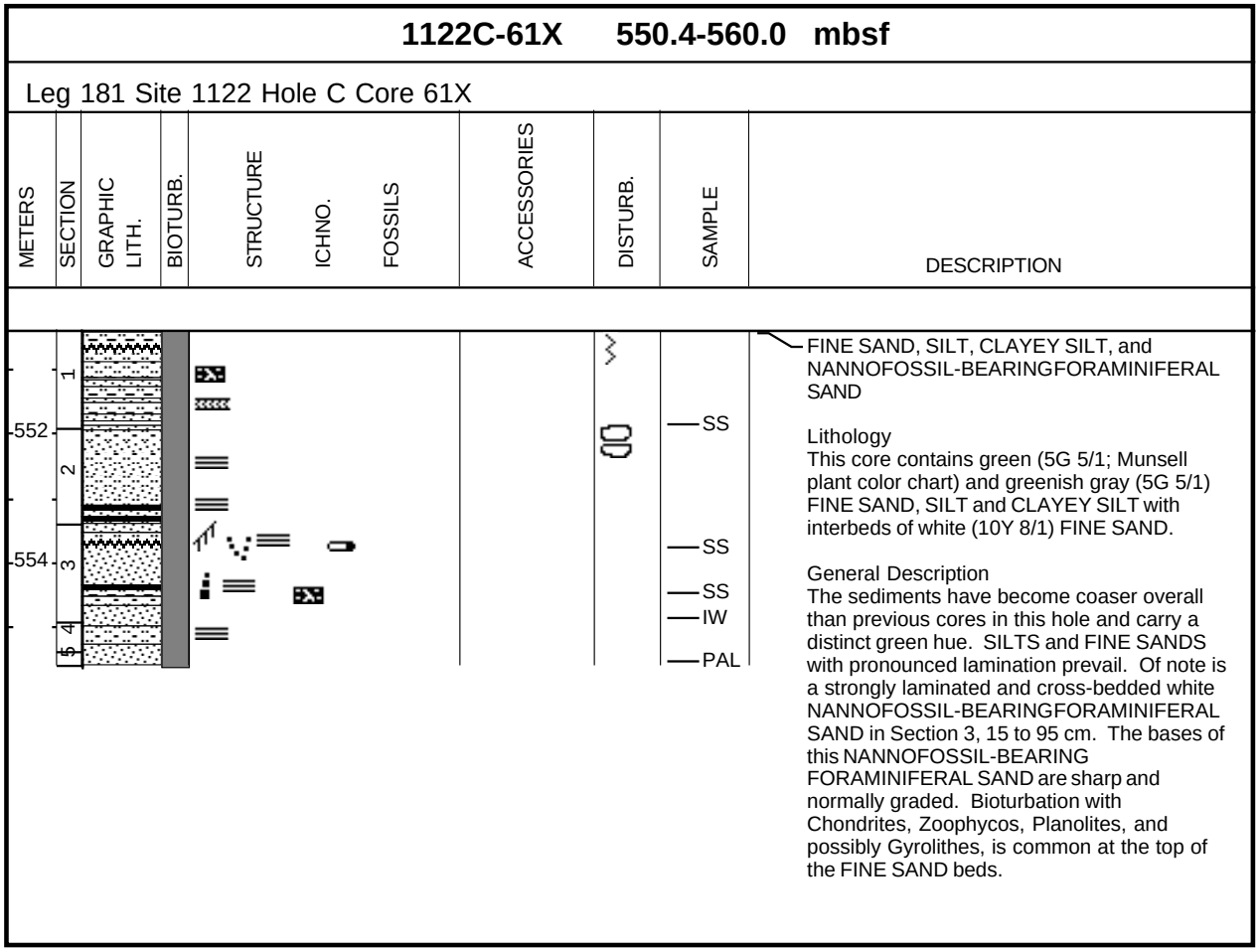


1122C-59X NO RECOVERY

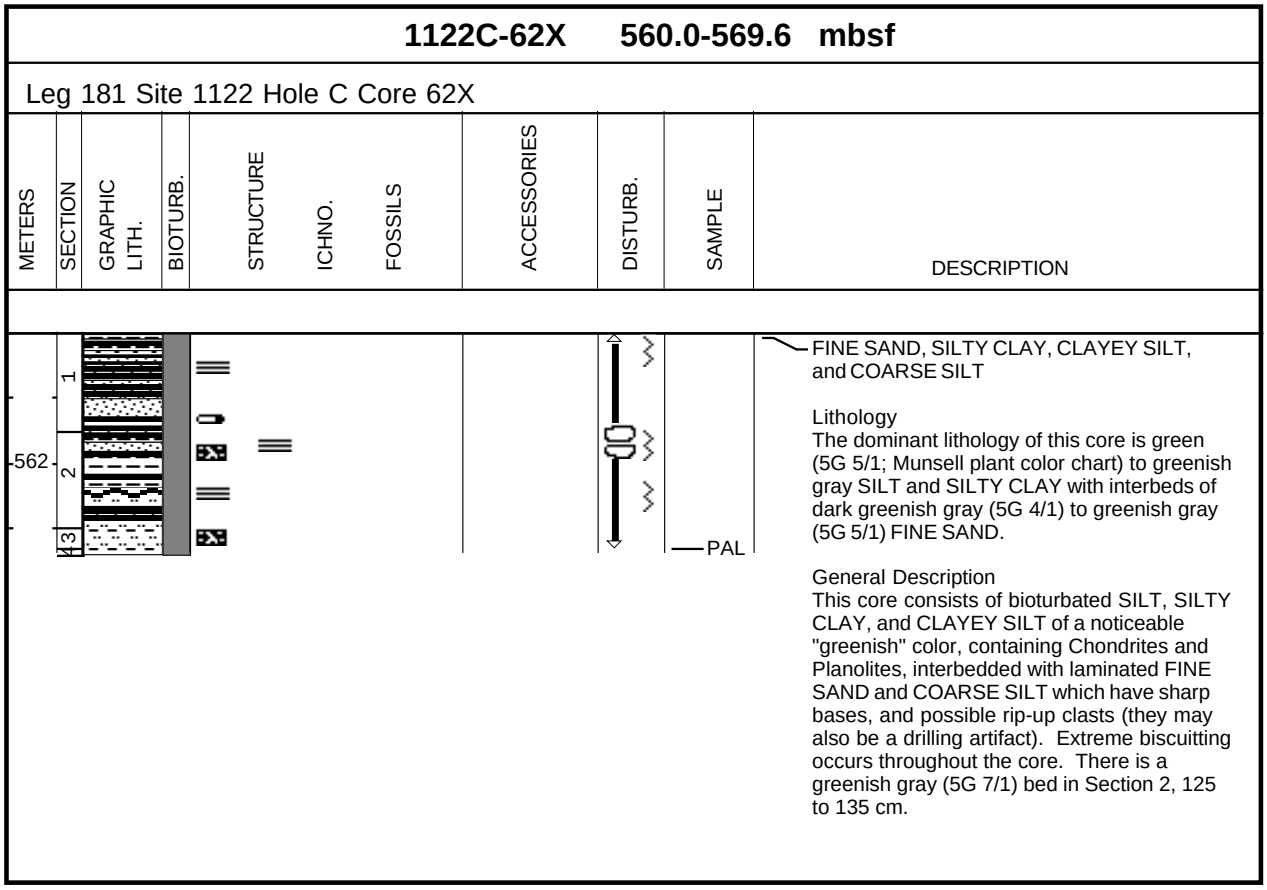
Core Photo


1122C-60X 540.7-550.4 mbsf
Leg 181 Site 1122 Hole C Core 60X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
1
SS
PAL
SILTY CLAY, CLAYEY SILT, SILTY SAND, and SILT
Lithology
The dominant lithology is greenish gray (5G 5/1) SILTY CLAY to CLAYEY SILT. Greenish gray (5G 5/1) SILTY SAND is present near the base.
General Description
The core catcher is highly disturbed, but contains finely laminated SILT and laminated SILTY SAND near the base.

Core Photo


1122C-61X 550.4-560.0 mbsf
Leg 181 Site 1122 Hole C Core 61X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
552
554
1
2
3
4
5
SS
SS
SS
IW
PAL
FINE SAND, SILT, CLAYEY SILT, and NANNOFOSSIL-BEARINGFORAMINIFERAL SAND
Lithology
This core contains green (5G 5/1; Munsell plant color chart) and greenish gray (5G 5/1) FINE SAND, SILT and CLAYEY SILT with interbeds of white (10Y 8/1) FINE SAND.
General Description
The sediments have become coaser overall than previous cores in this hole and carry a distinct green hue. SILTS and FINE SANDS with pronounced lamination prevail. Of note is a strongly laminated and cross-bedded white NANNOFOSSIL-BEARINGFORAMINIFERAL SAND in Section 3, 15 to 95 cm. The bases of this NANNOFOSSIL-BEARING FORAMINIFERAL SAND are sharp and normally graded. Bioturbation with Chondrites, Zoophycos, Planolites, and possibly Gyrolithes, is common at the top of the FINE SAND beds.

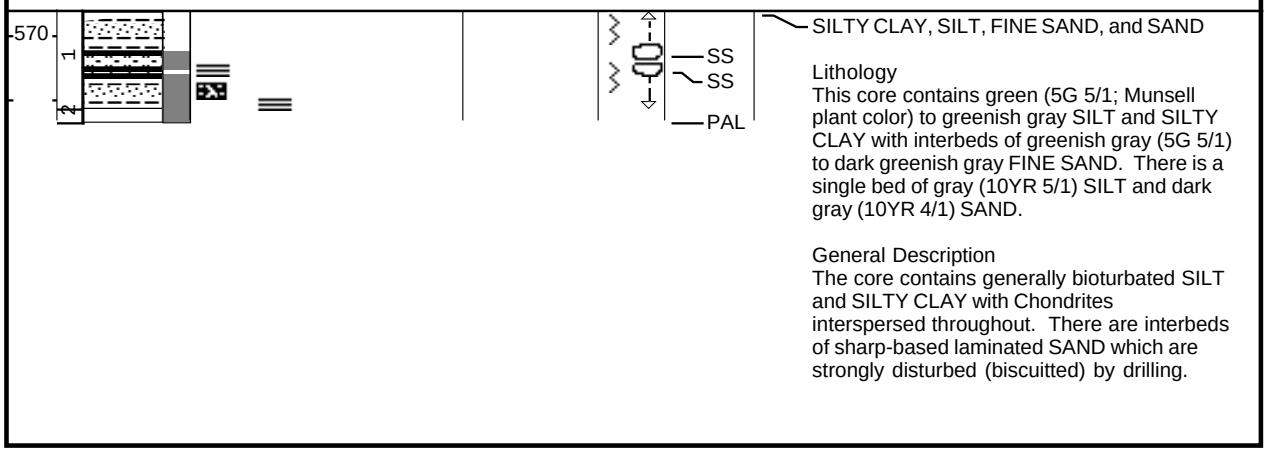
Core Photo


1122C-62X 560.0-569.6 mbsf
Leg 181 Site 1122 Hole C Core 62X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
562
1
2
3
PAL
FINE SAND, SILTY CLAY, CLAYEY SILT, and COARSE SILT
Lithology
The dominant lithology of this core is green (5G 5/1; Munsell plant color chart) to greenish gray SILT and SILTY CLAY with interbeds of dark greenish gray (5G 4/1) to greenish gray (5G 5/1) FINE SAND.
General Description
This core consists of bioturbated SILT, SILTY CLAY, and CLAYEY SILT of a noticeable "greenish" color, containing Chondrites and Planolites, interbedded with laminated FINE SAND and COARSE SILT which have sharp bases, and possible rip-up clasts (they may also be a drilling artifact). Extreme biscuitting occurs throughout the core. There is a greenish gray (5G 7/1) bed in Section 2, 125 to 135 cm.

Core Photo

1122C-63X 569.6-579.3 mbsf

Leg 181 Site 1122 Hole C Core 63X



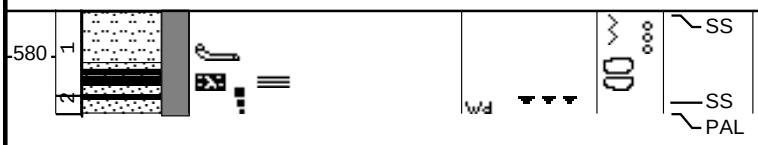
Lithology
This core contains green (5G 5/1; Munsell plant color) to greenish gray SILT and SILTY CLAY with interbeds of greenish gray (5G 5/1) to dark greenish gray FINE SAND. There is a single bed of gray (10YR 5/1) SILT and dark gray (10YR 4/1) SAND.

General Description
The core contains generally bioturbated SILT and SILTY CLAY with Chondrites interspersed throughout. There are interbeds of sharp-based laminated SAND which are strongly disturbed (biscuitted) by drilling.

Core Photo

1122C-64X 579.3-588.9 mbsf

Leg 181 Site 1122 Hole C Core 64X



FINE GRAVELLY COARSE SAND, MEDIUM SAND, FINE SAND, SANDY SILT, and SILTY CLAY

Lithology
This core is comprised of greenish gray (5G6/1 to 5G 5/1) FINE SAND to greenish gray (5G 5/1) SANDY SILT.

General Description
The top 40 cm of Section 1 are greenish gray (5GY 5/1) soupy FINE SAND, with a layer of higly disturbed (7.5YR 5/2) SILTY CLAY in Section 1, 0 to 4 cm. Below the SANDY SILT, the lithology grades to greenish gray (5G 6/1) FINE SAND, with laminations and interbeds of greenish gray (5G 5/1) FINE SAND, in Section 1, between 95 and 97 cm, and 108 and 113 cm. These interbeds have sharp top and bottom contacts and are devoid of laminations. The core catcher contains greenish gray (5GY 5/1) poorly sorted FINE GRAVELLY COARSE SAND which grades down to a MEDIUM SAND with greenish gray (5GY 6/1) clay interclasts. Intraclasts are up to 1.2 cm long. Wood fragments are abundant and are typically <1 cm long.

Core Photo

1122C-65X 588.9-598.5 mbsf

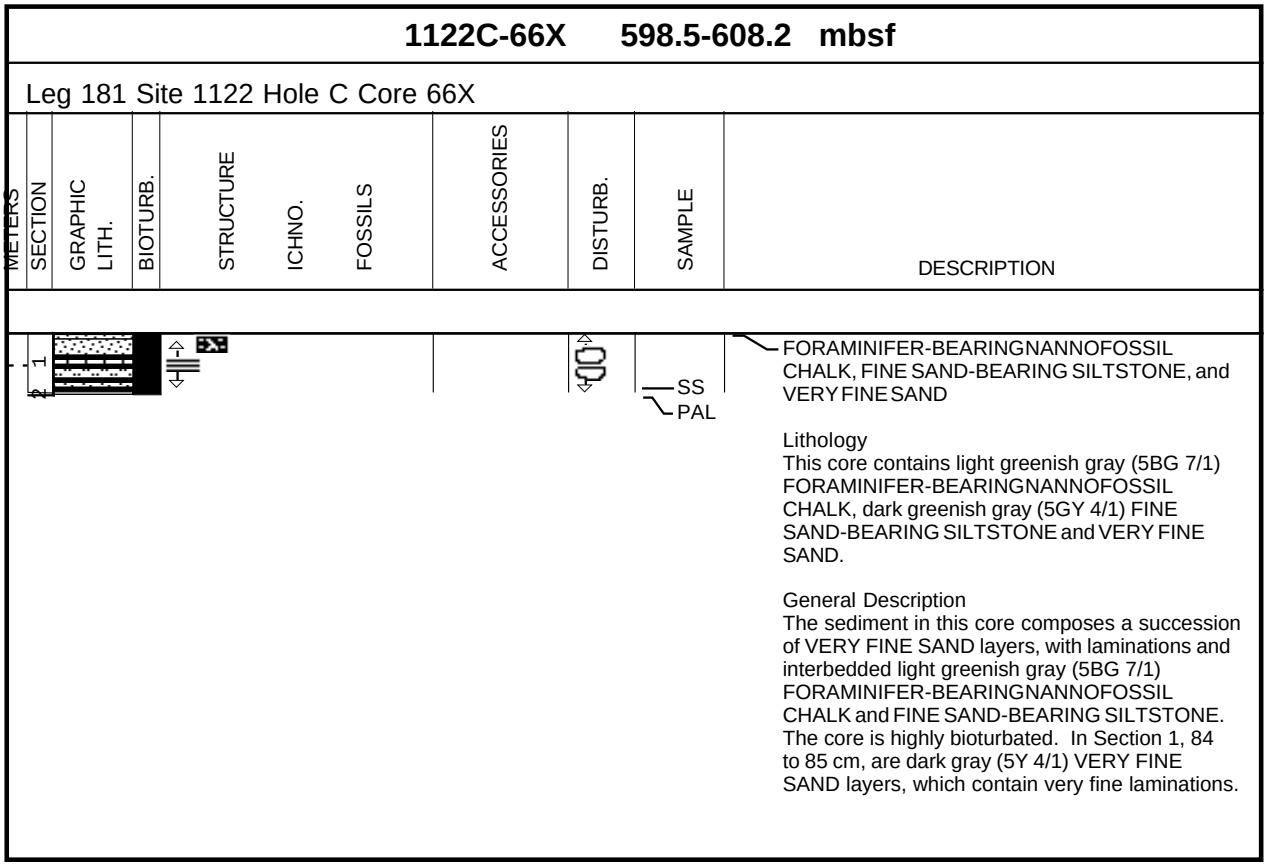
Leg 181 Site 1122 Hole C Core 65X

FINE SAND-BEARING SILTSTONE, FORAMINIFER-BEARINGNANNOFOSSIL CHALK, FINE SAND, and SILTY CLAY

Lithology
Contained in this core is light greenish gray (5BG 7/1) FORAMINIFER-BEARING NANNOFOSSIL CHALK, greenish gray (5GY 5/1) FINE SAND-BEARING SILTSTONE and FINE SAND.

General Description
The upper 50 cm of Section 1 contain greenish gray (5GY 5/1) FINE SAND interbedded with light greenish gray (5BY 7/1) SILTY CLAY. Below this, FORAMINIFER-BEARINGNANNOFOSSIL CHALK is present. The SILTY CLAY grades to greenish gray (5GY 5/1) FINE SAND-BEARING SILTSTONE. There are abundant wood fragments throughout the FINE SAND-BEARING SILTSTONE. The entire core is heavily bioturbated and disturbed by drilling biscuits.

Core Photo


1122C-66X 598.5-608.2 mbsf
Leg 181 Site 1122 Hole C Core 66X
METERS
SECTION
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ICHNO.
FOSSILS
ACCESSORIES
DISTURB.
SAMPLE
DESCRIPTION
1
SS
PAL
FORAMINIFER-BEARING NANNOFOSSIL CHALK, FINE SAND-BEARING SILTSTONE, and VERY FINE SAND
Lithology
This core contains light greenish gray (5BG 7/1) FORAMINIFER-BEARING NANNOFOSSIL CHALK, dark greenish gray (5GY 4/1) FINE SAND-BEARING SILTSTONE and VERY FINE SAND.
General Description
The sediment in this core composes a succession of VERY FINE SAND layers, with laminations and interbedded light greenish gray (5BG 7/1) FORAMINIFER-BEARING NANNOFOSSIL CHALK and FINE SAND-BEARING SILTSTONE. The core is highly bioturbated. In Section 1, 84 to 85 cm, are dark gray (5Y 4/1) VERY FINE SAND layers, which contain very fine laminations.

Core Photo

1122C-67X 608.2-617.8 mbsf

Leg 181 Site 1122 Hole C Core 67X

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
	1						wd		SS PAL	COARSE SAND, MEDIUM SAND, VERY FINE SAND, FINE SAND, and SILTSTONE

Lithology
This core is comprised of greenish gray (5GY 6/1) FINE and VERY FINE SAND, greenish gray (5GY 5/1) FINE SAND, COARSE SAND, and MEDIUM SAND, and greenish gray (5GY 6/1) SILTSTONE.

General Description
At the top of Section 1 there are 2 cm of light olive brown (2.5Y 5/4) SILTY CLAY which might be cave-in. In Section 1, between 2 to 38 cm, greenish gray (5GY 6/1) VERY FINE SAND appears, and reverse grades to FINE SAND. Laminations are present throughout. In Section 1, 38 to 41 cm, there is greenish gray SILTSTONE which has sharp contacts at both the top and bottom contacts. Section 1, 41 to 44 cm, greenish gray (5GY 5/1) SILTSTONE with a bioturbated base, changes at 44 to 50 cm to the same material as the bed above it. FINE SAND with a sharp top contact and laminations appears in Section 1, between 50 and 59 cm. Below Section 1, 60 to 95 cm, a sharp contact marks the change to greenish gray (5G 5/1) COARSE to MEDIUM SAND and grades down to FINE SAND, with mud interclasts of dark greenish gray (5G 4/1). Wood fragments occur abundantly throughout and biscuitting is prevalent.

Core Photo

1122C-68X 617.8-627.4 mbsf

Leg 181 Site 1122 Hole C Core 68X

METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
	1								PAL	NANNOFOSSILOOZE

Lithology/General Description
Only a small amount of the core catcher was recovered. It contains greenish gray (5GY 5/1) NANNOFOSSILOOZE.

Site 1122 Smear Slides									Texture				Mineral															Biogenic										Rock		
Leg	Site	Hole	Core	Type	Section	Top	Depth (mbsf)	Lithology	Sand	Silt	Clay	Calcite (30)	Carbonate (35)	Chlorite (45)	Clay (47)	Feldspar (71)	Glauconite (82)	Heavy Minerals (89)	Mica (118)	Opaques (140)	Oxides (146)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Zircon (223)	Bryozoa (24)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Radiolarians (173)	Silicoflagellates (189)	Skeletal Debris (192)	Sponge Spicules (199)	Fecal Pellet (70)	Lithic Fragments (106)	Comments
181	1122	A	1	H	1	10	0.1	D	5	30	65					C		P					C	P				C	*	C		P			P			BASALTIC SHARDS ?
181	1122	A	1	H	1	146	1.46	D	35	15	50					C		C	P				C						P	P				P				
181	1122	A	1	H	2	88	2.38	D	5	30	65					C							C	P				P	*	C		P	P		P			
181	1122	A	1	H	4	25	4.75	M	60	30	10					C			P	P			C	A														ASH LAYER
181	1122	A	1	H	4	27	4.77	M	60	30	10					P				C			P	D														DARK ASH LAYER
181	1122	A	1	H	5	40	6.4	D	80	10	10					D		P					D	P					P									
181	1122	A	1	H	6	100	8.5	D	R	20	80					A		P	P				A						P	C	*			P			P	
181	1122	A	2	H	1	100	10.3	D	60	30	10					D		P	P				C	P					P	P		*			P		P	
181	1122	A	3	H	1	80	19.6	D	70	20	10					C			P				C	P								*		P			C	MICROCLINE, PLAGIOCLASE
181	1122	A	3	H	5	25	25.05	D	5	70	25					C			P	P			C							P		*			P			
181	1122	A	4	H	4	36	33.18	M	R	10	90					P		P					P					P		C					C			HEMIPELAGIC MUD ?
181	1122	A	5	H	5	115	44.95	M	30	30	40					C		P					C	P					P	C					P		P	
181	1122	A	6	H	3	11	50.41	M	70	30						C	P	P		P			C	P										P				
181	1122	A	6	H	3	118	51.48	D	10	50	40					P				P			P					R	R	P				R	P			
181	1122	A	6	H	4	41	52.21	D	5	35	60					P			P				P					P		R					P			
181	1122	A	7	H	4	101	62.31	D	10	30	60		P			P				R			P	P				C	R	C					P			
181	1122	A	7	H	5	67	63.47	D	10	40	50		P			P		R					P						P	C				P	P			
181	1122	A	7	H	5	75	63.55	D	10	50	40		P			P	P		P				P					C	P					P	P			
181	1122	A	7	H	5	89	63.69	D	10	40	50		P			P			P							*		C		C				P	P			
181	1122	A	7	H	5	90	63.7	D	5	25	70								P			P						C	P	P					P			
181	1122	A	8	H	3	10	68.54	D	5	25	70					P				P			P						P						P			
181	1122	A	12	X	1	80	105.5	D	5	40	55				P	C	P	P		P								P		R					P			
181	1122	A	12	X	3	112	108.82	D	5	25	70					C		P	P				C					P		R		R			P			
181	1122	B	1	H	1	17	0.17	D	5	20	75					C		P					C							C				C	C			
181	1122	C	1	H	1	10	0.1	D	10	40	50					C		P					C	P				C		C				P	C	P		
181	1122	C	1	H	1	129	1.29	D	50	20	30					C		P		P			C	P						P				P	P			GARNET, AMPHIBOLES
181	1122	C	1	H	2	51	2.01	D	10	50	40					C		P		P			C	P						D				P	P	P		
181	1122	C	2	H	1	57	3.07	M	5	30	65		C			C		P		P			C	P				C	C	C				P	C			
181	1122	C	2	H	7	43	11.93	M	70	20	10					C							C	D											P			
181	1122	C	3	H	5	38	15.43	M	5	20	75						D	P											P	A					P			
181	1122	C	3	H	6	26	16.81	D	70	20	10					C	*	P		C			C				P		C	P				C			P	
181	1122	C	4	H	1	28	14.28	D	5	15	80					P		P		P			P					C	P	A			P		P		P	
181	1122	C	4	H	4	24	18.78	D	80	10	10					A		C					A						*	*					*		P	AMPHIBOLE, PYROXENE, MICROCLINE, PLAGIOCLAS
181	1122	C	5	H	3	39	26.89	D	80	5	15					A		C		P			A	*					*					P	P		C	
181	1122	C	6	H	6	90	41.4	D	80	10	10					A	*	C					A						*					C	P		C	AMPHIBOLE, PYROXENE
181	1122	C	8	H	2	50	54	D	90	10	R					A		C		P			D						*	P				P				
181	1122	C	9	H	4	35	66.35	M	R	30	70					P			P	P			P					P	*	A					P			PINK LAYER
181	1122	C	9	H	6	3	69.03	M	5	45	55					P			P	P								P		C					P			
181	1122	C	10	H	1	20	71.2	M	10	40	50					P	*			P		P	P					R	P	C				P	P			
181	1122	C	11	H	1	136	81.86	M	10	50	40		P			P		P	P				P	*					P	P				P	P			
181	1122	C	11	H	3	94	84.44	D	90	10	R					P	P			P			P													P		
181	1122	C	12	H	4	42	91.84	M	40	50	10					A	P		P				A						P	P				P				
181	1122	C	12	H	4	45	91.87	M	30	30	40			P	P	A			R	P			A						P	P				P	P			
181	1122	C	15	X	2	145	110.95	D	5	20	75			P	C	A				R			A					P	R	P				P	P			
181	1122	C	16	X	3	57	121.17	M	R	20	80					C							C						C						P			
181	1122	C	16	X	3	110	121.7	D	5	35	65					C		P					C					C	P	D					P			
181	1122	C	17	X	4	12	131.82	D	5	30	65		P			C		P					C					C	P	A				P	P		P	
181	1122	C	17	X	4	16	131.86	M	5	30	65					C		P					C	P				C	P	A				P				
181	1122	C	17	X	4	92	132.62	D	R	10	90					P							P							D						P	
181	1122	C	18	X	1	136	138.26	M	70	20	10					A		C					A						P	P								
181	1122	C	18	X	3	35	140.25	M	80	15	5					C							C	D						P						P		ASH LAYER
181	1122	C	19	X	2	44	148.44	D	60	30	10					D	*	P					D															
181	1122	C	20	X	2	80	158.4	D	R	10	90		C			P		P					P					C		D					P			
181	1122	C	20	X	2	94	158.54	M	R	10	90		C																P	D					P			
181	1122	C	20	X	3	21	159.31	D	R	20	80					C		P					C					A	*	A								
181	1122	C	25	X	1	30	204.6	D	70	20	10					C		C					C															
181	1122	C	26	X	2	9	215.59	M	5	10	85		C					P											C	A				P	P			
181	1122	C	26	X	3	24	216.74	D	30	30	40		C			C		P				P	C					P	A	A		P		A	P			
181	1122	C	29	X	3	16	246.06	D	40	30	30					C		P				P	C	P				P	C	A				C	P		P	
181	1122	C	30	X	2	126	255.26	M	5	10	85					C		P					C					P		D		*			P			
181	1122	C	31	X	3	42	265.12	D	80	15	5					A		P	*			P		P					P	P				C	P			
181	1122	C	33	X	3	113	284.83	D	5	10	85		A			P							P						P	A				P			OLIVE GREEN	
181	1122	C	33	X	4	13	285.33	D	R	10	90		P			R							R							D							WHITE	
181	1122	C	34	X	2	80	292.7	D	5	20	75		P			R				P								P		P		*	*	P	P			
181	1122	C	34	X	3	106	294.46	D	5	10	85		P		P	P		R		P			P							P				P		P		
181	1122	C	35	X	5	143	307.36	M	80	20			R			A		R	R	P			A						*			*				P		

Site 1122 Smear Slides									Texture			Mineral																Biogenic									Rock		
Leg	Site	Hole	Core	Type	Section	Top	Depth (mbsf)	Lithology	Sand	Silt	Clay	Calcite (30)	Carbonate (35)	Chlorite (45)	Clay (47)	Feldspar (71)	Glauconite (82)	Heavy Minerals (89)	Mica (118)	Opaques (140)	Oxides (146)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Zircon (223)	Bryozoa (24)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)	Ostracod (144)	Radiolarians (173)	Siliceoflagellates (189)	Skeletal Debris (192)	Sponge Spicules (199)	Fecal Pellet (70)	Lithic Fragments (106)	Comments
181	1122	C	37	X	1	97.5	320.28	M	80	10	10					P			*				P	A								*						ASH
181	1122	C	37	X	6	126	328	M	60	30	10					P								A					*				*					ASH
181	1122	C	38	X	2	45	330.85	M	10	20	70				C	C						*	C					P	*	A		P		P	P	C		
181	1122	C	39	X	1	30	338.8	M	10	50	40					C			*				C					*	C	P				P	P			PINKISH LAMINA
181	1122	C	39	X	1	110	339.6	D	10	60	30					A			*				A									*		C	P			
181	1122	C	39	X	4	52	343.52	M	80	20						A				P			A	*						P				P				TURBIDITE BASE
181	1122	C	40	X	2	65.5	350.36	D	5	25	70					C		P					C							A					*			
181	1122	C	44	X	2	18	388.58	D	80	15	5					C		C				P	C						C	P				C				
181	1122	C	44	X	2	56	388.96	M	80	15	5					P							P	D														PINKISH ASH LAYER (TWO SLIDES)
181	1122	C	44	X	2	70	389.1	M	5	20	75		C			P							P						P	C								
181	1122	C	45	X	1	60	397.2	D	70	20	10					A	*	P	*			P							A	C				P			P	
181	1122	C	45	X	1	107	397.67	M		5	95					*	*	*				*						P		P					D			GREEN LAYER
181	1122	C	45	X	1	137	397.97	M	R	15	85					P			*			P						C		P					A			
181	1122	C	46	X	1	99	407.19	M	20	30	50					C		P					C					P	P	A		P		P	A			GREEN LAYER
181	1122	C	46	X	3	28	409.48	D	30	40	30					C	P	P					C						C	C								
181	1122	C	47	X	1	48	416.38	D	5	40	55					A		P					A	*						C					C			
181	1122	C	48	X	4	122	431.22	M	5	10	85					P	*	*					P					P	P	D		P						
181	1122	C	49	X	3	111	439.31	M	10	20	70					A						C	A					C		C		C			C			BURROW
181	1122	C	49	X	6	30	443	D	10	30	60		A	*		C	*	P				C							P	A				P				
181	1122	C	50	X	3	22	448.02	D	20	30	50					C	P	P					C						P	A					C			
181	1122	C	50	X	5	6	450.88	M	50	40	10					P							P	D														ASH LAYER (LAMINA)
181	1122	C	51	X	1	12	454.52	M	70	20	10					P							P	D														REWORKED ASH (BURROW)
181	1122	C	51	X	2	60	456.5	M	5	15	80		C			P		P					P	P				*	*	A		*			C			
181	1122	C	52	X	4	56.5	469.17	M	30	35	35		P			P	*			P			P							*	*							
181	1122	C	52	X	6	31	471.91	D	30	30	40					P		*	*				P	P				P				*		P	P			
181	1122	C	52	X	6	80	472.4	M	10	30	60		P		P	R				*		P	R					*	P	C					C			
181	1122	C	54	X	3	68	486.68	D	5	45	40				P	P							P	*				P				*			P		P	
181	1122	C	55	X	1	32	493.02	D	20	40	40				P	P				*			P					R						*	P		P	
181	1122	C	55	X	2	60	494.8	M	25	25	50				P	P			P					*					R			R		P	C			
181	1122	C	55	X	3	64	496.34	D	40	30	30					C		*	P				C						*						P		P	
181	1122	C	55	X	3	68	496.38	D	20	40	50					C			P	P			C												P			
181	1122	C	55	X	4	30	497.5	M	15	10	75					R							R						*	P	A					P			
181	1122	C	55	X	4	54	497.74	D	20	40	40				*	P			C				P						*		C					P			
181	1122	C	55	X	5	45	499.17	D	20	40	40					P		*					P								A					P			
181	1122	C	57	X	3	32	515.22	D	70	30						C		*	P	*			C	*						P	P				C	P			
181	1122	C	58	X	1	56	522.06	D	50	30	20					C		*	*	*			C							P	*				P	P			
181	1122	C	58	X	2	27	523.27	M	10	50	40					P							P	*							A					P			
181	1122	C	60	X	CC	40	541.1	M	30	70						A		*	*	*			A								*				P	*			
181	1122	C	61	X	1	140	551.8	D	15	25	60		C	P		C		P					C	*							A					C			GREEN SANDS
181	1122	C	61	X	3	32	553.72	D	5	15	80		C			P		P					P							A	A					P			
181	1122	C	61	X	3	103	554.43	D	30	30	40			A		C	P	P					C	*						*						C			GREEN SANDS
181	1122	C	63	X	1	67	570.27	M	10	20	70		C			P	*	C					P							P	A					C			BROWN LAYER
181	1122	C	63	X	1	90	570.5	M	20	20	60		C			C		C					C								A					C			
181	1122	C	64	X	1	3	579.33	D	30	30	40					C		C	P				C								P					C			
181	1122	C	64	X	CC	5	580.67	D	20	30	50		C			C		P	P				C							C	A				P	C			SILTY SAND + INTRACLASTS
181	1122	C	65	X	1	28	589.18	D	15		85					P							P							C	A				P				
181	1122	C	65	X	1	145	590.35	D	30	15	55		C			C	*	P					C							P	A					C			
181	1122	C	66	X	1	82.5	599.33	M	5	10	85		A							A										P	A								BLACK LAYER
181	1122	C	67	X	1	79	608.99	D	20	10	70		C	*		C		P				C	C							C	C		P			P			