

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				L. Ives	14 Sep 23
0	Severely disturbed, Scopy							X			Comments	
-2												
-4												
-6												
-8												
-10												
-12												
-14												
-16												
-18												
-20											Medium Brown (10 YR) → unable to observe → present, but not in XRAY, but not visible @ surface → unable to observe • Sand appears to be a mixture of quartz + biotite Does not fizz SS shows: sponge spicules, diatoms, + rads	
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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				L. Ives	14 Sep 23
0		(4) severe soupy									Comments	
2												
4											0-67cm highly disturbed ↳ med brown soupy, sandy mud	
6												
8											clasts are abundant in x-ray, but not visible on surface	
10												
12											sandy mud angled gradational grades into pebble soupy muddy congl.?	
14												
16											C67-78cm ↳ clasts might just be intraclasts of Dm	
18												
20											---	
22												
24											angled gradational	
26												
28											granules + coarse sand become more common	
30												
32											DK Brown massive sandy, clast-rich Dm	
34												
36											clasts: pebble-sized, up to 2cm. no strongly preferred orientation. Angular to SR	
38												
40											Does not fizz	
42												
44											Clasts consist of:	
46												
48											- granitoids	
50												
52											- gneiss	
54												
56											- real feldspars	
58												
60											- quartz	
62												
64											- blk mafics	
66												
68											Matrix: poorly sorted muddy sand	
70												
72											wide range of sand grain sizes, sand comp similar to clasts	
74												
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Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				L. Ives	14 Sep 23
	0 ↓						0 ↓	M	9 10	Comments	
								fine hints of weak strata + mud whips	8 20		
									3 30	cont'd from bottom Deformed mud whips @ 11-14 cm (core surface) @ 28-23 cm (x-ray) 	
								M	8 40		
	0 ↓							M	3 50	→ Sharp, irregular → hints of different compaction/def Dark gry, massive, sandy. In up to 80 cm below the contact	
									4 60		
									7 70	• clast comp + gsd similar to above, but also includes med gry mud intraclasts up to 1 cm no preferred clast orientation apparent	
									9 80		
									10+ 90	w/ more? shale-like clasts, + green hematite clasts	
									5 100		
									8 110	up to. pebble-sized A-SR	
									7 120		
									10 130	→ rounded mud intraclast @ 118 cm Matrix is sandy, poorly sorted all the grain sizes	
									10 140		

	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				L Ives	14 Sep
-0		O ↓			A			O ↓	M ↓	6	Same as above w/ mafic clasts + mud clasts	

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				Sandra	9/14/2023
Comments											
	⚡						∅		4	0-25 cm: Dark greyish brown clast-poor muddy diamictite	
	⚡								1	one greenish grey mud lamina, disturbed, at 10-12 cm	
	⚡								1	12-24 cm: 2 washed granitic gneiss pebbles up to ~6 cm	
										21-24 cm: pebble in mud	
										7-9 cm: red meta sediment? clast	

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:	Comments
			C	S	Sd	G	D				BR	9/14/23	
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IW

Slight disturbance (fractured)
throughoutClast-poor, sandy diamictite
greyish-brown-dark
in colorthroughout the
section

base of section

CM Scale	Samples	Drilling Disturbance	Lithology					Bloturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:	Comments
			C	S	Sd	G	D				BR	9/14/23	
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slight disturbance
(fractured) throughout

greyish-brown-dark
clast-poor, sandy diamictite
(upper ~30 cm extra clast poor)

14, 28, and 60 cm: shell fragments (!)
(and possibly smaller fragments
elsewhere)

some type of benthic foram @ 47 cm

base of section

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Sandra	9/14/2023
Comments												
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I W

31-105 cm: Dark grey
Sandy diamictite, clast-poor,
massive,
Some variations in
matrix grain size

30-22 cm: brecciated.
possible fall-in

30-22 cm: matrix seems more
muddy at the top

22-31 cm: muddy
diamictite, clast-poor
gradational lower contact

60-63 cm: 3-cm granite
clast

88 cm: possible shell
fragment?

31-105 cm: Dark grey
Sandy diamictite, clast-poor,
massive,
Some variations in
matrix grain size

3 0-22 cm: brecciated.
possible fall-in

3 matrix seems more
muddy at the top

2 22-31 cm: muddy
diamictite, clast-poor
gradational lower contact

1 60-63 cm: 3-cm granite
clast

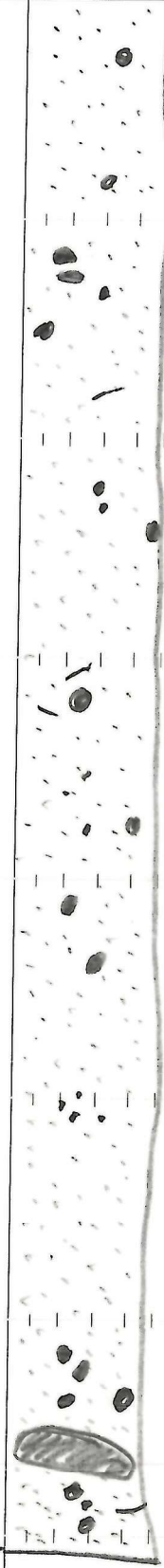
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4

7

88 cm: possible shell
fragment?

IW

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:			
			C	S	Sd	G	D				Sandra	9/14/2023			
Comments															
0										1	0-141 cm: Dark grey massive sandy diamictite, clast-poor shell fragments at 59 cm and 60 cm and 36 cm				
2															1
4															3
6															2
8															4
10										1	62 cm: granite / f reids 1 cm				
12										1					
14										4					
16										3					
18										1					
20										1	137 cm: shell fragment				
22										3					
24										6					
26										4					
28															
30											128 cm: granite				
32															
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40											6-cm rounded basalt				
42															
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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Sandra	9/14/2023
0											Comments	
2												
4											0-10cm: light gray	
6												
8											clast-poor sandy	
10												
12											diamicrite	
14												
16											carbonate cemented	
18												
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[illegible]

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
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diametron.
dark grey
brown

creted

Sed. Mud with
disp clasts
dark grey brown
creted

[illegible]

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				TF	9/15/23
										Comments	
										0-13: fall-in V. Dark green	
										13-28: dulling buccia - muddy sand - pieces to a sandy 'sledge' medium sand	
										28-72: mud w/ sand - some lenses + layers of sand concentration medium sand	
										Thin bivalve shell fragment @ 69 cm	
										72 to IW muddy sand	
										sand - med - angular grains - mainly qtz, but also feldspar	
										stratified throughout	

CM Scale

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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
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0-10: mud w/ sand

10-15: muddy sand
- med-coarse angular grains15-43: mud with sand
w/ sand-rich laminae (sparse)43-63: sandy mud
w/ med-c grains
& angular gtz
- thin bivalve
contact @ 63 cm

63-71: mud - ylted lams

71-base

sandy mud

- c sand + granules
- gtz + rock
fragments
bivalve @ 78 cm
intacts

stratified throughout

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				GG	15 Sep.
0		1	o o o o o								Comments	
2												
4											Fall in 0-5cm Muddy Sand med greyish-yellow fine to coarse sand	
6												
8											Fine (Dispersed clasts - angular gravel { plutonic / metamorphic + shell frag	
10												
12											Single larger clast 2cm felsic large xH	
14												
16											Poorly sorted moderately stratified w/ mud lenses (discontinuous) + sand laminae	
18												
20											Wavy, inclined = for w/cm sections	
22												
24											macro shell frag 3m + more significant disarticulate brachio blockened + thin fragile shears	
26												
28											rotated laminae and clasts @ 15cm.	
30												
32											→ shell,	
34												
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IW

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				TF	9/15/23
Comments												
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0-3 fall-in dark grey
red clast - fine ss?
3- base: muddy sand w/ disp clasts
stratified
- rel. muddiness
- fine - med sand
- quartz, feldsp,
black - amphibole?
- subangular
→ most clasts are
granules, c. 5mm

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				CG	15 Sep
Comments												
0										0	0-24 muddy sand	
2											stratification preserved x laminae	
4											m. disturbed shell frags	
6												
8												
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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				TF	9/15/23
0											Comments	
2										2	Dark grey	
4											0-20: muddy sand	
6											w/ disp clasts	
8											- stratified	
10										2		
12											20-31: mud; thickly	
14											laminated	
16											31-37: concction	
18											color change to brown	
20											CaCO ₃ cement	
22											- looks brecciated	
24											at bottom	
26											37-58 Sandy mud	
28											stratified	
30											- reworked mud clasts	
32											58-69 Interbedded	
34											muddy sand	
36											laminated, color	
38											banded mud	
40											red brown to grey	
42											alternations on 10 cm scale,	
44											69-75	
46											79-83	
48											89-91	
50											100- base interlam. muddy	
52											sand + mud	
54											- cm scale,	
56												
58												
60												
62												
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CM Scale	Samples	Drilling Disturbance	Lithology					Bloturbation	Sedimentary Structures	Clast Count (≥ 5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0												
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0-11 fall-in
dk grey mud
laminated

11-22: dk green muddy
sand
- stratified

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				Sandra	9/15/2023
										Comments	
	5									0-3 cm: fall-in	
										3-6 cm: loose biscuit	
										56-60 cm: rubble	
										86-90 cm: rubble	
							0			0-75 cm: Very dark	
										greyish green fine to	
										very fine sandstone,	
										parallel-laminated, sorted	
										75-84 cm: same color	
										Sandy mud w/ shell	
										fragments, some black	
							2	↓		(pyritized?)	
							3	M		81-82 cm: quartz granule	
										moderately bioturbated	
							0			w/ dispersed clasts	
							3	M		90-94 cm: sandy mud	
										w/ dispersed clasts,	
										massive, greyish green	

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Sandra	9/15/2023
0											Comments	
2												
4											0-41cm: Greyish green muddy fine to very fine sand w/ dispersed clasts, crudely stratified	
6												
8											2	
10												
12											0-41cm: Strongly disturbed	
14												
16											27cm: Shell fragment on surface	
18												
20											41-70cm: visible stratification, parallel laminae no clasts, muddy fine to very fine sand, greenish grey	
22												
24												
26												
28												
30												
32												
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36												
38												
40												
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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				BR	9/15/23
Comments												
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150												
152												

moderately (biscuited)
throughout

mostly muddy sand w/
some intervals of
sandy mud

Some dispersed grains
up to ~2mm, but no
>5mm clasts

Gley 1 - 10R - 2.5
muddy sand w/ rare
2-4 cm thick sandy
mud intervals

93-53cm: weakly bioturb

85-95cm: cemented
interval (fizzes w/
HCl)

100-end = sparse bioturb

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				BR	9/15/23
0											Comments	
2								1			slightly disturbed	
4											(fractured) throughout	
6												
8												
10												
12												
14												
16											6-78: and 100-126:	
18											muddy sand w/ some	
20											up to ~3mm grains (no clasts)	
22												
24												
26												
28												
30											some 'pockets' of coarser	
32											sand grains here and there	
34												
36												
38												
40												
42												
44											Gley 1-2.5-10	
46											throughout	
48												
50												
52												
54												
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64												
66												
68												
70												
72												
74												
76											78-100 cm: sandy mud,	
78											weakly stratified	
80											(gradational upper and	
82											lower contact)	
84												
86												
88												
90												
92												
94												
96												
98												
100												
102												
104												
106											coarser sand is	
108											muddier and near	
110											bottom	
112												
114												
116												
118												
120												
122												
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126												
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150												
152												

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				BRE	9/15/23
0								1				
-2												
-4												
-6												
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-12												
-14												
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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0												
2												
4		high						His		2	Muddy Sand, red with dispersed clasts (S-d pebbles). dark greenish grey	
6		wash										
8		gravel										
10												
12												
14										3	gravel.	
16												
18												
20												
22								High			sandy Muddy S-d	
24												
26												
28												
30												
32												
34		floc									Sandy Mud. with dis clasts <u>thinly lam.</u> green	
36												
38		nod										
40												
42												
44												
46								high				
48												
50												
52												
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56												
58												
60												
62												
64												
66										1		
68												
70												
72												
74												
76											Muddy S-d brown	
78												
80												
82												
84		floc								1		
86												
88		high										
90												
92												
94												
96												
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148												
150												
152												

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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				BR	9/15/23
Comments												
0								1				
2												
4												
6												
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152												

moderate (brecciated) disturbance throughout

one clast > 5mm

Clay 1-10% - 2.5 throughout except for cemented interval

0-25: sandy mud

25-59: muddy sand

59-81: cemented interval of muddy sand

81-91: muddy sand (weak/diffuse stratification esp. 24-59cm)

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CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:	Comments
			C	S	Sd	G	D				BR	9/15/23	
0													
2													
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0-14: green-grey sandy mud
weakly stratified, bioturbation

14-#3: muddy sand w/ dispersed
clasts (and coarse sand)

#3-end: muddy sand w/
weak stratification

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				BJR	9/15/23
0		23						2				muddy sand (grey-green)
2												
4												
6												
8												
10												
12												
14												
16												
18												
20												
22												
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