

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	9/10/2023
Comments												
0										4	0-150 cm; Clast-poor to clast-rich, stratified? sandy diamicton; washed in drilling	
2												
4												
6												
8												
10												
12												
14												
16												
18												
20												
22												
24												
26										10	Light grey in color 30-48 cm and 68-90 cm have lower clast abundance and muddier matrix, but core is so disturbed that it possible it is not original sediment composition or bedding	
28												
30												
32												
34												
36												
38										1	10-13 cm: Black basalt? clast 3 cm ϕ	
40												
42												
44												
46												
48												
50										2		
52												
54												
56												
58										2		
60												
62												
64										0		
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74										0		
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124										6		
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134										10		
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140												
142										5		
144												
146												
148												
150												
152												
											140-143 cm: Diorite clast 3 cm ϕ	

I W

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	9/10/2023
0											Comments	
2										2	0-27cm: clast-poor	
4											to clast-rich sandy	
6											diamicton; washed	
8										1	by drilling; more	
10											compacted below 27cm	
12										6		
14											27-95cm: clast-poor	
16										5	sandy diamicton, massive	
18												
20										1	34-37cm: clast cluster	
22												
24										4	Grey in color below 27cm	
26												
28										4		
30												
32										5	95-148cm: clast-rich	
34											muddy diamicton,	
36										6	massive	
38												
40										8		
42												
44										1	106-114cm: granite-felsic	
46											clast, broken in 2 pieces?	
48										1		
50											114-126cm: diorite-felsic	
52										3	clast, broken in 2 pieces?	
54												
56										9		
58												
60										6		
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CARB
81XRD
94
bulkXRD
134
clay

drilling slurry

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	9/10/2023
0											Comments	
2										1		
4											0-12cm: 2 clasts without matrix, (probably 2 pieces of the same clast)	
6										3		
8											gneiss, strongly foliated	
10												
12											12-16cm: dark grey clast-rich muddy diamictite, massive	
14												
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18												
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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	9/10/23
0											Comments	
2												
4										10	Strongly brecciated and fractured (broken into 3-10 cm long fragments) throughout	
6		>										
8												
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Clast-poor sandy diamictite

Up to 4-cm clasts of quartz, gneiss/granite, and dark-fine-grained crystalline rock

pieces jumbled and potentially out of order

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				GG	11 Sep
Comments												
0										10	0-base clast-poor sandy Diamict Massive v. dark yellowish-gray matrix sandy mud (coarse sand) Clasts ~ 2mm - 10mm, granitic common, 1-5cm DD. Biscuiting, no gravity 'washed' drilling v. slow eg 2m per 4hrs.	
-2												
-4												
-6												
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-152												

IW

[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				TF	9/11/23
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Dark brown, well-indurated
clast-poor sandy
diamictite
- no stratification evident
- 0.5 to 2cm clasts
of granite, diorite +
other ign + met rx
Strongly brecc + fractured
into 5-10 cm lengths

76 cm - single piece
of granite

Cm Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
			C	S	Sd	G	D				
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2											
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Logged By:

ET

Date:

9/11/23

(0-48cm)

P. Granitic pebbles
low grade
metamorphism

2 rock fragments 2 prominent
clast from the
diamict

(49-56cm)

Diamict, sandy, clast poor
dark greyish yellow

up to 9cm clast

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥ 5 mm) up to 10	Comments
			C	S	Sd	G	D				
0											
2	NA	NA	NA					NA	NA	1	BATHYAN!! 1 large pebble ~5 cm
4		washed gravel									
6											
8											
10											
12											
14											
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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				BR	9/11/23
Comments											
	washed gravel	NA					NA		10	washed gravel disturbance throughout gravel clasts (max of granite and gneiss w/ one marble) up to 10cm long clasts base of section	

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				Sandra	9/11/2023
										Comments Dry core	
									4	0-10 cm: Clast-poor muddy diamicton	
										10-20 cm: Light pink-grey banded gneiss	
										20-31 cm: Gabbro	
										31-34 cm: Felsic? Gneiss?	
										34-37 cm: Dioprite	
										37-42 cm: Banded gneiss	
										42-47 cm: Granite	
										47-53 cm: Amphibolite	
										Maximum clast size: 10 cm	
										53-64 cm: Amphibolite (Mylonite)	

CM Scale	Samples	Drilling Disturbance	Lithology					Biurbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Sandra	9/11/2023
											Comments Dry core	
0											Washed gravel	
2											Maximum clast size 7cm	
4												
6												
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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	9/11/2023
											Comments <i>Dry rock</i>	
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0-5cm. 1 piece of diorite

5-19cm: Dark grey
clast-poor sandy
diamictite

21-30cm: amphibole-
rich granite

30-36cm: grey diorite

36-44cm: fine-grained
arkose? sandstone (erratic)

44-54cm: amphibolite

58-61cm: light-colored
foliated gneiss

62-67cm: diorite? baked?

68-77cm: 2 pieces of
light-colored foliated
gneiss

Max. clast size 10 cm.

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				Sandra	9/11/2023
	⚡									Comments	
										0-15cm: Washed gravel	
										0-6cm: Dark foliated granitic gneiss	
										7-15cm: Gabbro	

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	9/11/2023
Comments												
0											0-13cm: Dark grey clast-rich sandy diamicton	
2											6-13cm: Washed gravel, 1 dark granitic gneiss clast, foliated, 6cm has matrix attached to the rock — diamicton	
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0-13cm: Dark grey
clast-rich sandy
diamictite

6-13cm: Washed gravel,
1 dark granitic gneiss
clast, foliated, 6cm
bas matrix attached to
the rock — diamictite

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				Sandra	9/11/2023
Comments											
										0-47cm: Washed gravel or fall-in?	
										0-7cm: Light-colored foliated gneiss	
										7-13cm: Garnet-bearing felsic metamorphic	
										14-21cm: Feldspar-rich gneiss	
										22-38cm: 4 pieces of banded gneiss	
										38-47cm: Granodiorite	
										47-50cm: Dark grey clast-rich muddy diamictite (<10 cc of sediment)	

[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				ET	9/12/23
0		3						0	NA	4	Comments	
2												
4											(0-3cm) 1 clast (3-7cm)	
6												
8											Sandy mud with abundant clast dark greenish	
10												
12											(7-12cm) 2nd grey clast 2 clast of pebble size granite	
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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				GG	12 Sep
Comments											
							X	X	10		0-3 Gneiss clasts [washed gravel]
											3-16 clast poor Sandy Diarct Coarse Sand feldspathic
											16-54 washed gravel plutonic + metamorphic foliated felsic Pebble to Boulder

CM Scale

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[illegible]

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Comments
		C	S	Sd	G	D				
							X	X		0-10 washed gravel Plutonic + metamorphic Felsic Pebble to cobbles
									10	10-65 clast-rich Sandy diamict ~ > 5% mud lens discontinuous clast poor at 42cm
	X									70-76 washed gravel 76-82 clast poor diamict

Samples	Drilling Disturbance	Lithology	Bioturbation	Sedimentary Structures	Clast Count (≥ 5 mm) up to 10	Comments
		C S Sd G D				
	V		0		10	0 - 3 cm: 4cm clast of granite - washed
	①					3-86 cm: same as Section 1
						85-based: 4cm clast of white gneiss - washed gravel
	frc					
	V					

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	9/12/23
0		7						0		10	0-5 fall-in	
2		↓									- granite clast	
4		↓									(washed) +	
6		↓									piece of diam.	
8		↓										
10		↓										
12		↓										
14		↓										
16		↓										
18		↓										
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152		↓										

0-5 fall-in

- granite clast (washed) + piece of diam.

5-base clast-rich

Sandy diamictite

- up to 4cm clasts
- gneiss, granite, small black granules
- subv-subang.
- massive

Dark greyish brown.

→ this piece may be drilling disturbed (clast coated in sed)

CM Scale	Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				ET	9/12/23
Comments												
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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				ET	9/12/25
0											Comments	
-2		3 ft						0			(0-4cm) flowin	
-4		Flavin									dark greyish brown	
-6		slight									thin	
-8		crack									Pebbles up to 6 cm	
-10											in diameter	
-12											(0-4cm) diamict	
-14											1-8 cm sandy	
-16											diamict	
-18											(40-72cm)	
-20											clast poor sandy	
-22											diamict	
-24											(72cm-147cm)	
-26											clast rich sandy	
-28											diamict	
-30											(0-90cm) same	
-32											as above	
-34											(90-101cm)	
-36											clast poor sandy	
-38											diamict	
-40											(101-149cm)	
-42											clast rich sandy	
-44											diamict	
-46											Pebbles up to 6 cm	
-48											in diameter	
-50											Dark greyish brown	
-52											throughout	
-54												
-56												
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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				TF	9/12/23
											Comments	
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1A- clast-rich sandy 0-8
diamicton

2A-4A washed gravel
2-diorite 8-25
3-4 diorite

5A- clast-rich sandy diamicton
25-36

6A-7A- granite
-36-46

8A- as 5A ^{9A} green mafic
plutonic rock
46-52

10A-12 gneiss

14-A granite

12A- gneiss

13A- granite

14A- clast-rich muddy
diamict

82-84

↓
dark
greyish
brown

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	12 Sep.
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0-2 washed gravel

2-28 clast rich

Sandy Diamict

med. brownish grey

1W

28-108 clast rich

Sandy Diamict

Clasts up to 3cm

granitic +

metamorphic

Mud lens 2cm thick

soft deformation

PAL

114-118

washed gravel

[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				Sandra	9/12/2023
Comments												
0								ø		6	0-42 cm and 52 to 143 cm	
2												
4										8	Dark grey clast-rich	
6											sandy diamicton,	
8											massive	
10												
12												
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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				Sandra	9/12/2023
										Comments	
										0-16 cm: Washed gravel 11cm long banded granitic gneiss and a 6.5cm long dark banded granitic gneiss	

400-01605A-27R-T-A SHLF12712601							
CM Scale	Samples	Drilling Disturbance	Lithology				Clast Count (>5 mm) up to 10
			C	S	G	D	
-0	bis.	same					10
-2							
-4							
-6							
-8	9cm						
-10							
-12	(P)						
-14	biscuiting						
-16							
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-102	102						
-104	washed gravel						
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Logged By:	Date:
L.IVES	SEP 10 2023

Comments
→ granite x1 → Upper rocks are ~2cm green platite massive, clast poor sandy Dm ↳ DK Brown (2.5YR) <u>clasts:</u> • Angular to subrounded • Pebbles + cobbles are generally plume or low grade metaplatites (granitic gneiss) • granules + coarse sand are generally granite or single mineral composition. ↳ The little red speckles in this core seem to be derived from the very red granitic gneiss / pebbles or similar Clast abundance varies on the down-scale downcore, but it doesn't appear systematic. grains do not appear preferentially oriented. → 2-6 cm D . clasts @ bottom: feldspar-rich gneiss "tiger stripes" x 3 • diorite x 1 • biotite + quartz granite x 1 • green, plume + ting x 1

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				BKR	9/12/23
										Comments photo 13 dry-rock	
	washed gravel						○			washed gravel	
										clasts up to 10cm long	
										composed mainly of	
										gneiss and granites w/	
										one limestone and one	
										intermediate to mafic (gabbro?)	
										clast	
										and one chunk of	
										the clast-poor sandy	
										diposition	
										base of section	

[illegible]

[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	
0												
2												
4												
6	7											diametion. dark gray dispersed clasts
8												gneiss leucocratic.
10		glauk kerolite										
12												
14												
16												
18		(2)										ultramphic leucocratic rock
20												
22												
24												
26												
28												
30												
32												gneiss. leuco
34												
36												
38												
40	42											
42												
44												
46	46											Sandy mud dark grey brown highly disturb
48												
50												
52												
54												
56												gneiss leucocratic
58												
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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											gneiss leucocratic.	
2												
4												
6												
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12												
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16												
18												
20											ultramafic igneous leucocratic rock.	
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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				BR	9/12/23
										dry-rock photo	
										washed gravel	
										up to 5cm long clasts of gneiss and granite	
										base of section	

[illegible]

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (≥5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				TF	9/13/23
Comments											
	2 bgs						0	M ↓	10 ↓	Medium grayish brown. Noticeably lighter than previous cores.	
										up to 4 cm clasts 0-76 Sandy clast-rich diamicton - Massive	
										76-110 clast-rich muddy diamicton, with areas that are sand-rich - possible deformation? - stratification. - round, muddy structures - burrows?	
	3 br.									110-base Sandy c.r diamicton noticeably more pebbles - brecciated by drilling	

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	9/13/23
0								0	M	10		
2										↓		
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0-5 cm Fall-in dark gr-br.

5-102: Sandy, clast-rich diamictite

- up to 4cm clasts
- subrounded

- plat. igneous, gneissic, mineral grains (feldspar + quartz)

- Massive.

- possible deformation

72 - 86 cm

- hard to tell whether pieces have been rotated.

- cryptic

- note - darker spots are related to washing after splitting

102-bast; washed gravel
- granite

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	13 Sep
0											Comments	
2										1	clast 0-2	
4										10	2-26 clast poor	
6											muddy	
8											Diamict	
10											clasts up 1cm	
12										1	dark grey on green	
14											LL sharp unconformable	
16											26-56 clast rich	
18										10	sandy	
20											Diamict	
22											dark greys to yellow	
24											66-98 washed gravel	
26											Plg-rich granite dark red	
28											K-feldspar + epidote red + green	
30											Qtzite	
32											Gneiss grey to red to	
34											orange	
36											Mafic fine x + line	
38											foliated	
40												
42												
44												
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CM Scale	Samples	Drilling Disturbance	Lithology					Biocurbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
			C	S	Sd	G	D				Comments	
0												
-2												
-4												
-6												
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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								0		10	0- base! Sandy, clast-poor diamicton → gteite - largest clast is 4cm; most are <1 cm. - subangular	
-2								↓		↓		
-4												
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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	9/13/23
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0-32 Washed gravel Cobbles + pebbles Mafic intrusive + gneiss												
32-68 Sandy, clast-poor diamicton - up to 2 cm clasts of x-line rocks - massive												
68-91 cm washed gravel gneiss pebbles (all same lithogy)												
91-109 as 32-68 massive ↓ gr. contact												
109-base Sandy, clast-rich diamictolite massive												

Samples	Drilling Disturbance	Lithology	Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C S Sd G D				Sandra	9/13/2023
Comments							
						4-114cm and 124-136 cm: 8 Dark greyish brown 10 sandy diamicton, clast-rich, massive 10 Clasts are subangular to subrounded up to 19cm Ø 8 62-73 cm: banded gneiss 7 73-83 cm: gabbro 10 83-102 cm: granite 10 102-107 cm: banded gneiss 1 0-4 cm: fall-in? 1 1 125-127 cm: pink granite 0 14-18 cm: 2 granodiorite clasts, subrounded 1 27-32 cm: rounded magic igneous, basalt 5 cm Ø 5 3	

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				Sandra	9/13/2023	
0										10			0-18cm: Same section 1
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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	9/13/2023
											Comments	
0		4								0	0-6cm: fall-in?	
2												
4										6	6-70cm: Greyish brown	
6											clast-poor muddy	
8										8	diamictm, stratified	
10											with color banding and	
12											variation in grain-size in matrix	
14										5	clast up to ~1cm	
16											in size (those that are	
18										6	in matrix)	
20												
22										10	clast appear in clusters	
24												
26										7	Subangular to subrounded	
28											in shape	
30												
32										1	70-77cm: color banding,	
34											on a ~1-cm interval	
36										2	between bands, greenish-	
38											reddish	
40												
42											70-83cm: Sandy mud	
44											w/ dispersed clasts	
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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	9/13/2023
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0-25cm: washed gravel
4 igneous and
metamorphic rock
clasts

0-7cm: Black mafic
igneous (basalt?)
clast has matrix
attached, rounded, but
could be from drilling

7-18cm: Dark mafic
metamorphic:
amphibolite?

18-20cm: granite

20-25cm: banded
gneiss

Samples	Drilling Disturbance	Lithology					Bioturbation	Sedimentary Structures	Clast Count (>5 mm) up to 10	Logged By:	Date:
		C	S	Sd	G	D				L. Ives	13 Sep 23
										Comments	
							X	X	X	Washed gravel + muddy silt lithology: → white + red granitic gneiss (big grains) → foliated bk micaceous gneiss up to 8 cm thick	

[illegible]

[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	
0	Highly disturbed washed gravel.										gneiss nice collect.	
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