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Vibracore Description Sheet

Core ID: CI 1A
Latitude: 30.2318
Longitude: -89.1307
Date Vibracored: 8/4/2010
Geographic Location: Cat Is.

Date Described: Nov 15
Described By: Kyle Wallace, Noreen Buster
Core Penetration:
Core Length: 2.44

SEDIMENTARY TEXTURE AND STRUCTURES	% SAND	PHYSICAL CHARACTERISTICS	STRATIFICATION TYPE	SAMPLE	PHYSICAL DESCRIPTION
CLAY, SILT, FINE SAND, MEDIUM SAND, COARSE SAND, INTERVAL (Meters)	0, 50, 100	COLOR, DEFORMATION, BED THICKNESS, % SHELL, % ORGANICS, % BIOTURBATION	WAVY, FLASER, LENTICULAR, CROSS BED, MASSIVE BED, INCLINED BED, HORIZON LAMINATION	GRAIN SIZE, HEAVY MINERAL, MICRO FOSSILS, RADIOMETRIC, RADIOGRAPH, PHOTOGRAPH	

0-15cm - Muddy Sand, Brown muddy fine sand with abundant small organic fragments, bioturbated and mottled.

15-65cm - Mud, very dark brown soft mottled mud with abundant small organic fragments and lenses, small very fine sand lenses throughout as well, Sand lenses increase down core

65-117cm - Muddy Sand, light brown, fine, well sorted sand with abundant root casts and bioturbation, organic content and bioturbation decreases down core.

117-244cm - Sand, light orange/tan, brown, horizontally laminated clean well sorted sand with occasional thin Heavy mineral laminae, unit is oxidized along edges and in thin laminations from 218-224 cm.

15
65
117
2.44

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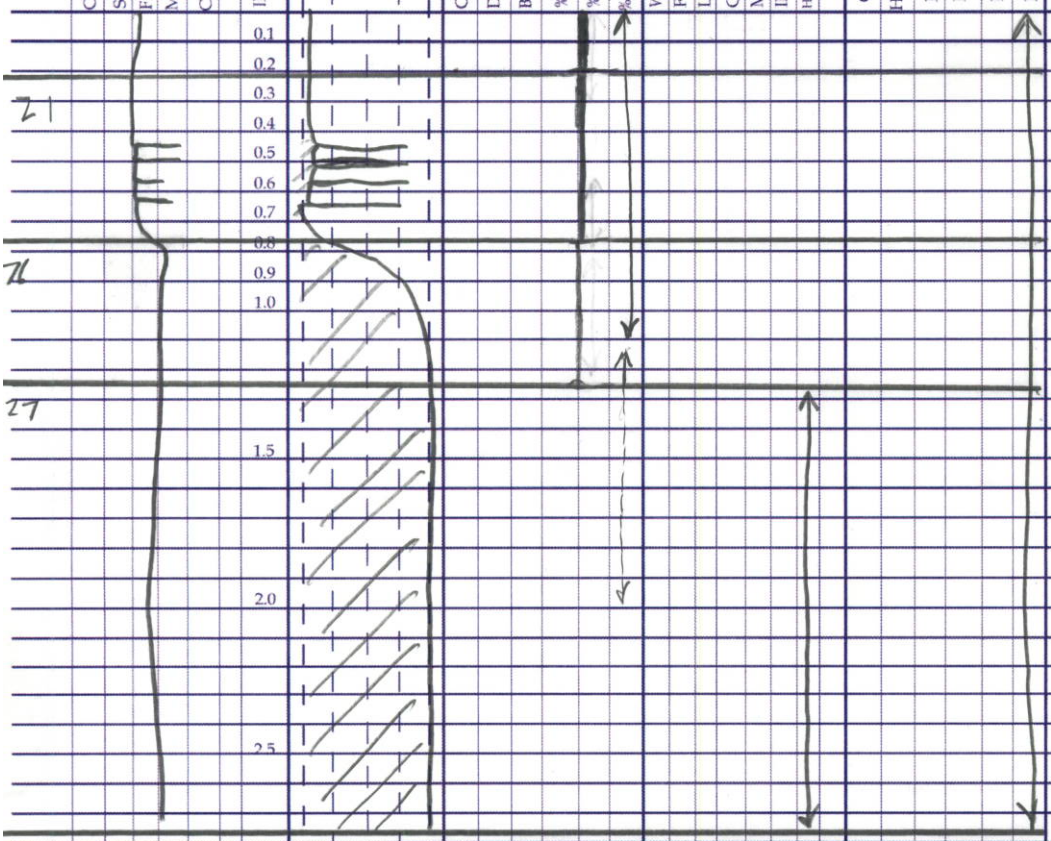
Vibracore Description Sheet

Core ID: 10CIO2
Latitude: 30.23033
Longitude: -89.1326
Date Vibracored: 08/04/2010
Geographic Location: CAT IS.

Date Described: 11-15-11
Described By: Kelso / Busker
Core Penetration:
Core Length: 2.77 m

SEDIMENTARY TEXTURE AND STRUCTURES	% SAND	PHYSICAL CHARACTERISTICS	STRATIFICATION TYPE	SAMPLE	PHYSICAL DESCRIPTION
CLAY, SILT, FINE SAND, MEDIUM SAND, COARSE SAND, INTERVAL (Meter)	0, 50, 100	COLOR, DEFORMATION, BED THICKNESS, % SHELL, % ORGANICS, % BIOTURBATION	WAVY, FLASER, LENTICULAR, CROSS BED, MASSIVE BED, INCLINED BED, HORIZON LAMINATION	GRAIN SIZE, HEAVY MINERAL, MICRO FOSSILS, RADIOMETRIC, RADIOGRAPH, PHOTOGRAPH	



0-21 cm - Mud. Grayish brown mud with abundant seagrass roots and fibers, bioturbated

21-76 cm Mud, dark brown slightly organic with organic content increasing. 68-79 cm, thin sand horizons with sharp clay contacts @ 44, 63, and 67 cm, sand lamination throughout

76-127 cm - Sand, light brown, well sorted fine sand with abundant brown organic roots cast and fragments, organic content decreases down core, bioturbated with evidence of horizontal burrows

127-277 cm - Sand, light brown, fine, well sorted horizontally laminated sand - clay with thin muddy sand Horizon at 254 cm 276.5 cm

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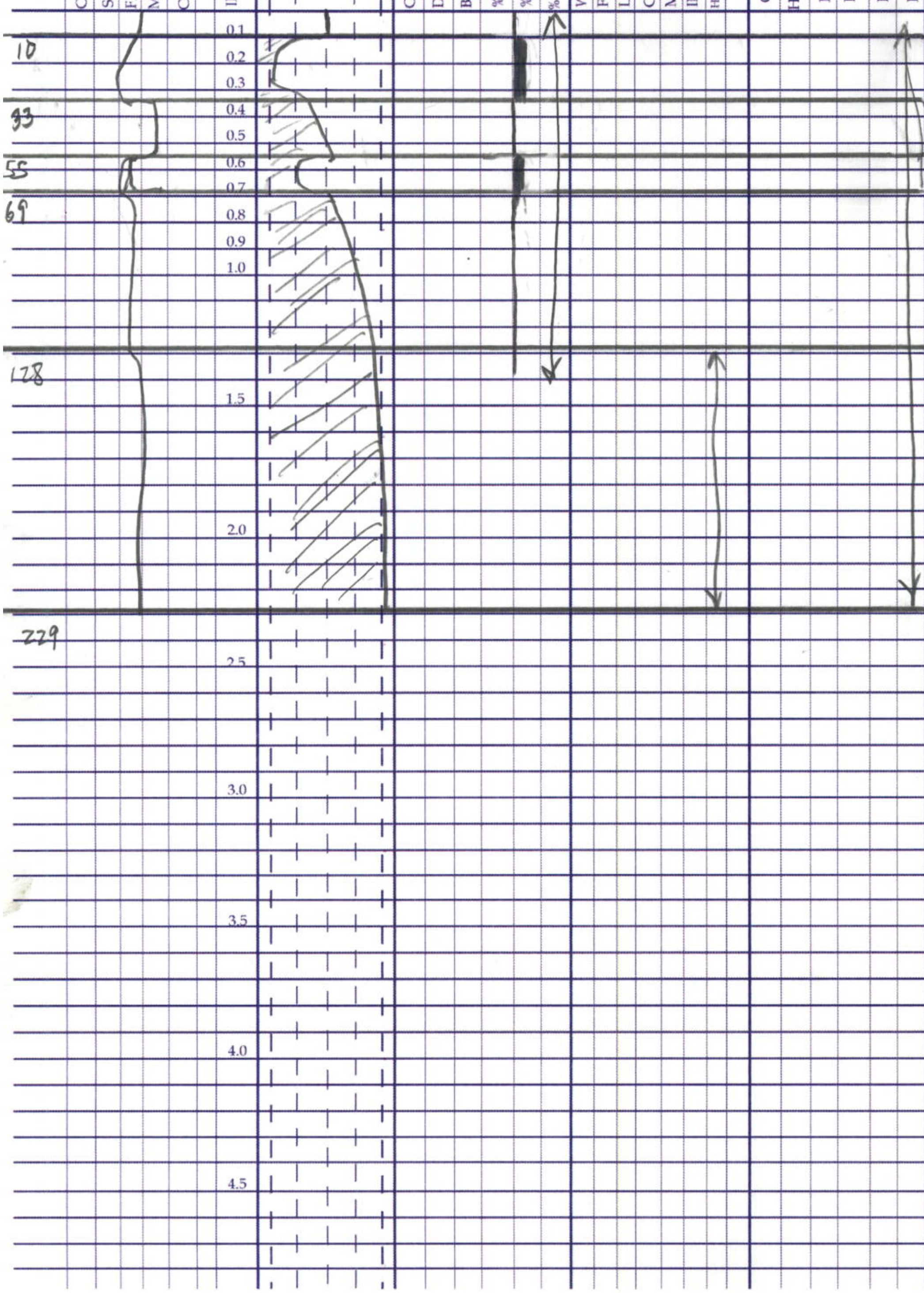
Vibracore Description Sheet

Core ID: 10CI04
Latitude: 30.22727
Longitude: -89.1307
Date Vibracored: 08/04/2010
Geographic Location: Cat Is

Date Described: 11/15/2011
Described By: Kelso / Buster
Core Penetration:
Core Length: 2.29 m

SEDIMENTARY TEXTURE AND STRUCTURES	% SAND	PHYSICAL CHARACTERISTICS	STRATIFICATION TYPE	SAMPLE	PHYSICAL DESCRIPTION
CLAY, SILT, FINE SAND, MEDIUM SAND, COARSE SAND, INTERVAL (Meters)	0, 50, 100	COLOR, DEFORMATION, BED THICKNESS, % SHELL, % ORGANICS, % BIOTURBATION	WAVY, FLASER, LENTICULAR, CROSS BED, MASSIVE BED, INCLINED BED, HORIZON LAMINATION	GRAIN SIZE, HEAVY MINERAL, MICRO FOSSILS, RADIOMETRIC, RADIOGRAPH, PHOTOGRAPH	



0-10 cm: Muddy Sand, Brown soft, massive silty-vfine sandy mud, with a clean (in situ?) sand clast at top, moderately organic

10-33 cm: Peat, v. dark Brown muddy Peat with intact long root fibers, becomes more sandy down core

33-55 cm - Sand, light grayish dark brown with v. dark brown root casts and fibers

55-69 cm: Muddy Sand or Sandy w/ heavy organic decomposition with long intact root fibers.

55-128 cm: return to Sand, with abundant root casts and decomposed organic lenses, organic content decreases down core

128-2.29 cm: Sand, light orangish brown fine well sorted, horizontally laminated sand with occasional small organic clasts

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Vibracore Description Sheet

Core ID: 10CIOS
Latitude: 30.22308
Longitude: -89.1109
Date Vibracored: 08/04/2010
Geographic Location: Cat Is

Date Described: 11/15/2011
Described By: Kelso/Bentley
Core Penetration:
Core Length: 2.22m

SEDIMENTARY TEXTURE AND STRUCTURES	% SAND	PHYSICAL CHARACTERISTICS	STRATIFICATION TYPE	SAMPLE	PHYSICAL DESCRIPTION
CLAY, SILT, FINE SAND, MEDIUM SAND, COARSE SAND, INTERVAL (Meters)	0, 50, 100	COLOR, DEFORMATION, BED THICKNESS, % SHELL, % ORGANICS, % BIOTURBATION	WAVY, FLASER, LENTICULAR, CROSS BED, MASSIVE BED, INCLINED BED, HORIZON LAMINATION	GRAIN SIZE, HEAVY MINERAL, MICRO FOSSILS, RADIOMETRIC, RADIOGRAPH, PHOTOGRAPH	

16

43

124

222

0-16cm - Orange rich mud. v. dark brown soft mud w/ abundant small organic root fibers

16-43cm - Mud, organic rich mud with organics small pronge clast v. dark brown & black with light olive clay horizon @ 30-33cm

43-124 cm - Sand, organic rich muddy sand grades into clean sand with abundant root mat organic content decreases down core

124-222 cm Sand, light Grayish brown, massive sand, NO evidence of burrowing, bedding, Sandy, well-sorted, grey fine-medium with occasional small, brown organic lenses

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Vibracore Description Sheet

Core ID: 10CI06
Latitude: 30.2278
Longitude: -89.1149
Date Vibracored: 08/04/2010
Geographic Location: CWES

Date Described: 11/15/2011
Described By: Kelso / Bentley
Core Penetration:
Core Length: 2.35m

SEDIMENTARY TEXTURE AND STRUCTURES	% SAND	PHYSICAL CHARACTERISTICS	STRATIFICATION TYPE	SAMPLE	PHYSICAL DESCRIPTION
CLAY, SILT, FINE SAND, MEDIUM SAND, COARSE SAND, INTERVAL (Meter)	0, 50, 100	COLOR, DEFORMATION, BED THICKNESS, % SHELL, % ORGANICS, % BIOTURBATION	WAVY, FLASER, LENTICULAR, CROSS BED, MASSIVE BED, INCLINED BED, HORIZON LAMINATION	GRAIN SIZE, HEAVY MINERAL, MICRO FOSSILS, RADIOMETRIC, RADIOGRAPH, PHOTOGRAPH	

13

43

113

235

0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5

0-13cm - Muddy Sand w/ sand, m, HK, interbedded sand and muddy sand

13-43cm - Hemic Peat v. dark brown hemic peat with intact root fibers, and interbedded sand, clean clay horizon at 15-17cm.

43-113 cm - Sand, brown-gray well sorted fine-grained sand with abundant small v. dark brown organic clasts / lenses, faint horizontal laminations

113-235cm Sand brownish-gray; moderately sorted, fine-medium sand with oxidation along the core axis

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Vibracore Description Sheet

Core ID: 10C107
Latitude: 30.23032
Longitude: -89.1165
Date Vibracored: 08/04/2010
Geographic Location: Cat IS

Date Described: 11/15/2011
Described By: Kelso/Foster
Core Penetration:
Core Length: 1.85 m

SEDIMENTARY TEXTURE AND STRUCTURES	% SAND	PHYSICAL CHARACTERISTICS	STRATIFICATION TYPE	SAMPLE	PHYSICAL DESCRIPTION
CLAY, SILT, FINE SAND, MEDIUM SAND, COARSE SAND, INTERVAL (Meters)	0, 50, 100	COLOR, DEFORMATION, BED THICKNESS, % SHELL, % ORGANICS, % BIOTURBATION	WAVY, FLASER, LENTICULAR, CROSS BED, MASSIVE BED, INCLINED BED, HORIZON LAMINATION	GRAIN SIZE, HEAVY MINERAL, MICRO FOSSILS, RADIOMETRIC, RADIOGRAPH, PHOTOGRAPH	

0 - 185 cm. Sand. Clean, fine well sorted sand, light brown w/ a dark gray sand layer from 1.50 - 1.70 m, faint horizontal bedding with occasional thin heavy mineral horizon.

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Vibracore Description Sheet

Core ID: 10CI10
Latitude: 30.23019
Longitude: -89.1074
Date Vibracored: 08/04/2010
Geographic Location: Cat. Is

Date Described: 11/15/2010
Described By: Kelso / Buster
Core Penetration:
Core Length: 2.37 m

SEDIMENTARY TEXTURE AND STRUCTURES	% SAND	PHYSICAL CHARACTERISTICS	STRATIFICATION TYPE	SAMPLE	PHYSICAL DESCRIPTION
CLAY, SILT, FINE SAND, MEDIUM SAND, COARSE SAND, INTERVAL (Meters)	0, 50, 100	COLOR, DEFORMATION, BED THICKNESS, % SHELL, % ORGANICS, % BIOTURBATION	WAVY, FLASER, LENTICULAR, CROSS BED, MASSIVE BED, INCLINED BED, HORIZON LAMINATION	GRAIN SIZE, HEAVY MINERAL, MICRO FOSSILS, RADIOMETRIC, RADIOGRAPH, PHOTOGRAPH	

12

37

80

0-12 cm: Sand and organic mud, grayish brown fine, well sorted sand with organic rich mud and dense root & burrow sharp basal contact

12-37 cm - Organic Rich mud, very dark brown mud with extensive small root fibers and even more dense organic root horizon at 17 cm and 26.5 cm thick clay (light olive gray) layer @ 34 cm starts to become slightly sand at 34 cm

37-80 cm - Sand, very dark brown organic rich sand mix grading into cleaner light brown sand with small v. dark brown organic clasts organic content decreases down core

80-237 cm - Sand light brown, well sorted fine quartz sand horizontally laminated

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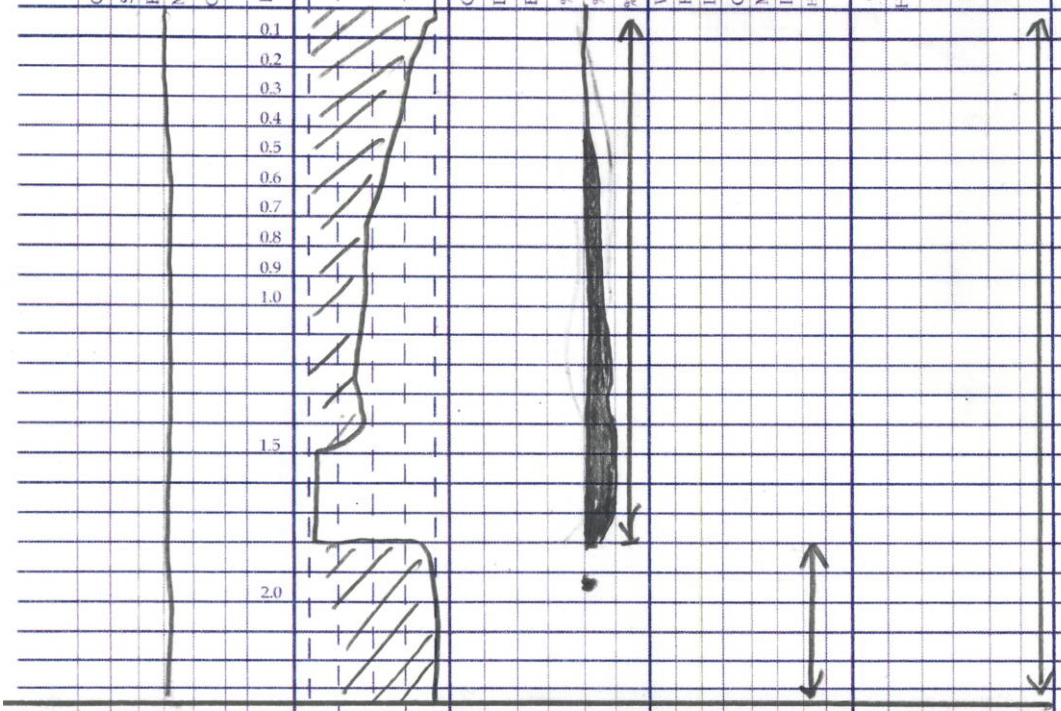
Vibracore Description Sheet

Core ID: 10CI11
Latitude: 30.23082
Longitude: -89.0984
Date Vibracored: 08/04/2010
Geographic Location: Cat I.

Date Described: 11/15/2011
Described By: Hebo / Bunt
Core Penetration:
Core Length: 2.35 m

SEDIMENTARY TEXTURE AND STRUCTURES	% SAND	PHYSICAL CHARACTERISTICS	STRATIFICATION TYPE	SAMPLE	PHYSICAL DESCRIPTION
CLAY, SILT, FINE SAND, MEDIUM SAND, COARSE SAND, INTERVAL (Meters)	0, 50, 100	COLOR, DEFORMATION, BED THICKNESS, % SHELL, % ORGANICS, % BIOTURBATION	WAVY, FLASER, LENTICULAR, CROSS BED, MASSIVE BED, INCLINED BED, HORIZON LAMINATION	GRAIN SIZE, HEAVY MINERAL, MICRO FOSSILS, RADIOMETRIC, RADIOGRAPH, PHOTOGRAPH	



0-5 cm, Sand, clean light brown, well sorted, fine sand.
- sharp Angular Bedding

5 - 182 cm Muddy Sand light Brown and dark brown mottled muddy sand and dark organic rich muddy sand with small wood fragments from 150-53 cm increasing in core fm 53-182 with a large wood chunk from 140-182 cm, unit is especially 1.0 - 1.30 m

182 - 235 cm - Sand yellowish brown well sorted, fine sand, Horizontally laminated with a thin dark brown organic rich sand horizon with a wood fragment at 195 cm

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Vibracore Description Sheet

Core ID: 10CIIZ
Latitude: 30.22201
Longitude: -89.0961
Date Vibracored: 08/04/2011
Geographic Location: GI Ts

Date Described: 11/15/2011
Described By: Kelso/Buster
Core Penetration:
Core Length: 5 m. 75cm.

SEDIMENTARY TEXTURE AND STRUCTURES	% SAND	PHYSICAL CHARACTERISTICS	STRATIFICATION TYPE	SAMPLE	PHYSICAL DESCRIPTION
CLAY, SILT, FINE SAND, MEDIUM SAND, COARSE SAND, INTERVAL (Meters)	0, 50, 100	COLOR, DEFORMATION, BED THICKNESS, % SHELL, % ORGANICS, % BIOTURBATION	WAVY, FLASER, LENTICULAR, CROSS BED, MASSIVE BED, INCLINED BED, HORIZON LAMINATION	GRAIN SIZE, HEAVY MINERAL, MICRO FOSSILS, RADIOMETRIC, RADIOGRAPH, PHOTOGRAPH	

0 - 15cm, live root mat in a soft medium brown organic - poor mud

15 - 88cm - Mud, medium brown, soft, aerated organic ~~poor~~ mud with abundant small mucky grass root fragment & various dewatering structures, increased small organic fragment from 78 - 88cm.

88 - 140 cm - Mud medium brown, relatively clean, moderate organic ~~poor~~ mud with only scattered small organic flecks, gradational basal contact with sand content increasing from 125 - 150cm.

140 - 310 cm - Sand slightly muddy - well sorted, type, mottled sand and slightly muddy sand with scattered brown organic flecks, evidence of cross bedding from 260 - 220cm

310 - 575 cm - Sand light brownish gray well sorted, fine, with moderate small muddy sand - filled burrows moderate bioturbation

575

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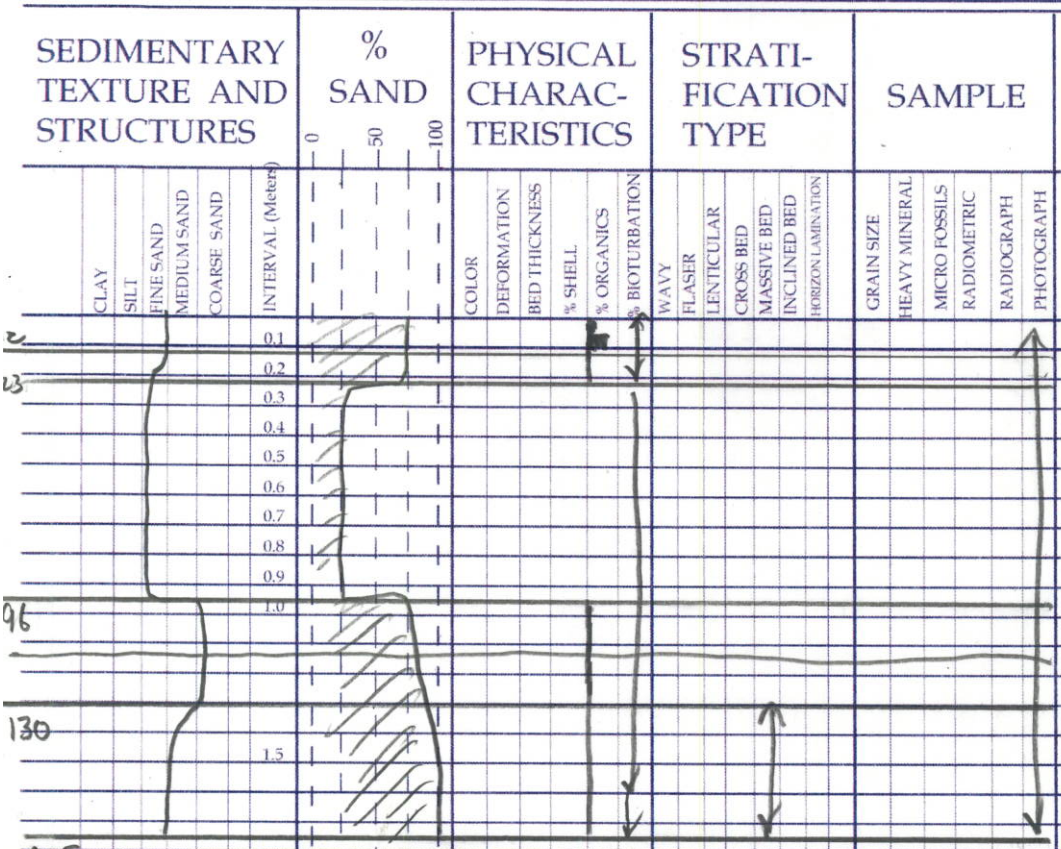
Vibracore Description Sheet

Core ID: 10CI3
Latitude: 30.21421
Longitude: -89.0999
Date Vibracored: 08/04/2010
Geographic Location: Cat Is

Date Described: 11/15/2011
Described By: Kelso / Bentley
Core Penetration:
Core Length: 1.75 m



PHYSICAL DESCRIPTION

0-12cm - Sand, black/gray, fine, well sorted sand, mottled with organic rich/organic poor sand, dense root mat (degraded) from 9-12cm

12-23cm - Sand, grayish brown, fine, well sorted sand with occasional darker brown slightly muddy sand lenses, moderate root fragments, mud content decreasing down core.

23-96cm - Silty Clay Olive gray silty clay with sporadic fine sandy clay lenses, thin, clayey sand horizon from 82-96cm, occasional small organic flecks

96-116cm - Sand, v. dark brown organic, clayey massive, moderately sorted sand

116-130cm Sand, medium brown, poorly sorted fine to coarse sand with small v. dark brown muddy sand clasts

130-175cm - Sand, cleaner, light yellowish brown, well sorted, fine massive Sand w/ v. dark brown, muddy Sand filled burrows throughout, becomes cleaner down core

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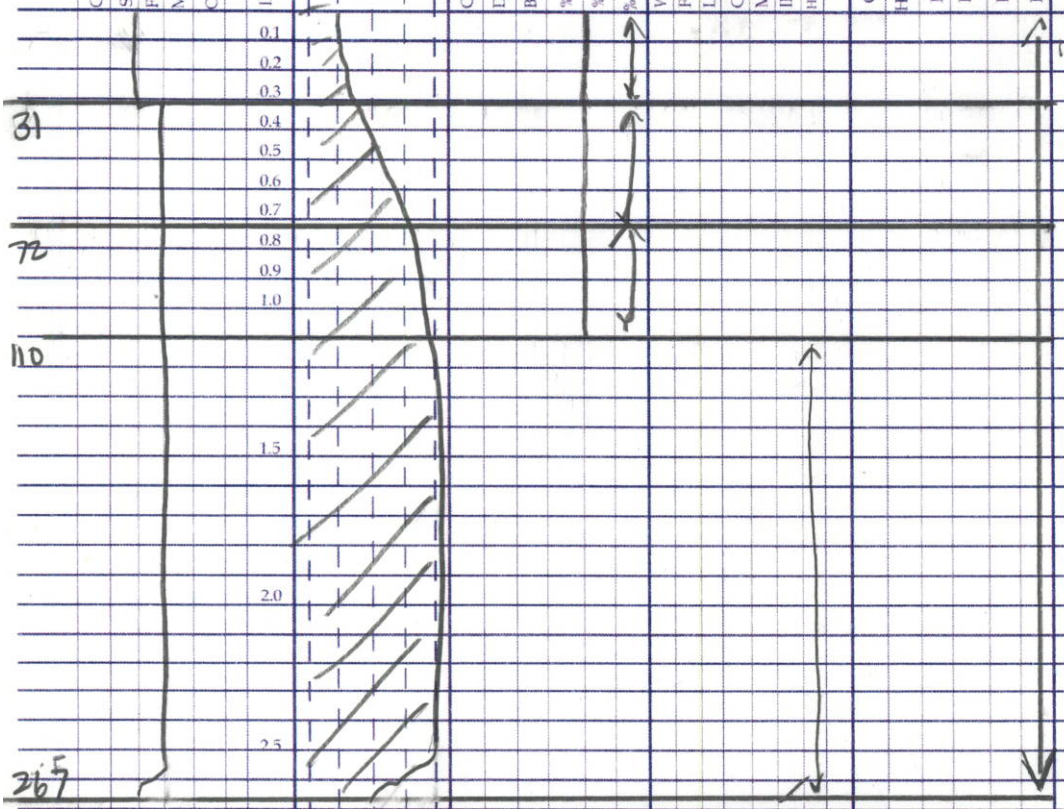
Vibracore Description Sheet

Core ID: 10CI14
Latitude: 30.22953
Longitude: -89.081
Date Vibracored: 08/04/2010
Geographic Location: Ai Is

Date Described: 11/15/2011
Described By: Kelso / Buster
Core Penetration:
Core Length: 2.67m

SEDIMENTARY TEXTURE AND STRUCTURES	% SAND	PHYSICAL CHARACTERISTICS	STRATIFICATION TYPE	SAMPLE	PHYSICAL DESCRIPTION
CLAY, SILT, FINE SAND, MEDIUM SAND, COARSE SAND, INTERVAL (Meters)	0, 50, 100	COLOR, DEFORMATION, BED THICKNESS, % SHELL, % ORGANICS, % BIOTURBATION	WAVY, FLASER, LENTICULAR, CROSS BED, MASSIVE BED, INCLINED BED, HORIZON LAMINATION	GRAIN SIZE, HEAVY MINERAL, MICRO FOSSILS, RADIOMETRIC, RADIOGRAPH, PHOTOGRAPH	



0-31 cm - Mud, mottled grayish brown and Brown Organic poor and organic-rich aerated mud with small organic flecks throughout, gradational contact

31 - 72 cm - muddy Sand Brown and dark brown muddy Sand and organic muddy Sand with occasional small organic flecks

72 - 110 cm - Sand grayish brown, fine well sorted sand with abundant small marsh grass root fibers

110 - 265 cm - Sand yellowish brown, clean well sorted, fine sand with faint horizontal bedding and occasional thin dark brown muddy Sand horizons visible mica flecks

Angular contact

265 - 267 - mud, organic rich soft mud with abundant small degraded root fibers