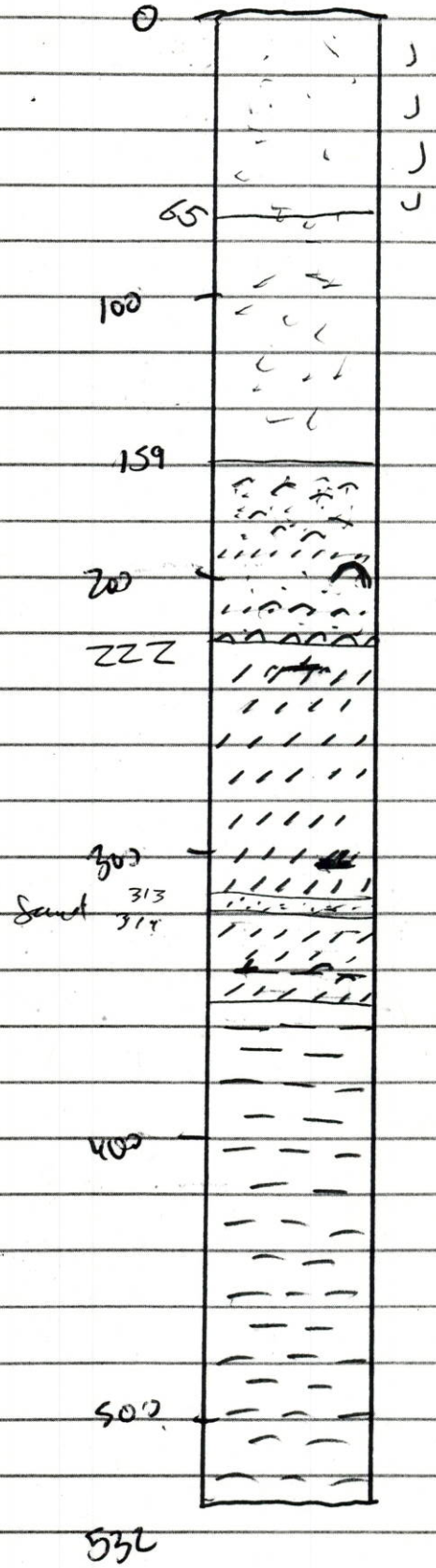
No catcher

10Bim06-08 532cm

- wood
- root
- organic
- shell
- articulated
- gastropod shell



0-65 cm - Sand, brownish orange and gray moderately sorted sand, with possible heavy mineral content (oxidized), small olive gray muddy sand burrows throughout. bedding is mottled.

65-159cm - Sand, light grayish brown, well sorted, fine quartz sand, with thin gray banding (possibly heavy mineral lamination). clean horizontally bedded, with minimal shell content

159-182 cm - Muddy Sand, dark brownish olive highly bioturbated sand with extensive burrowing and moderate disseminated shell hash, occasional dense shell hash clusters throughout as well.

182-222cm - Mud : Sand, olive gray clay/mud interbedded with light grayish brown clean sand, and light olive gray muddy sand, heavily bioturbated, minimal disseminated shell content, with a dense shell hash horizon at basal contact.

222-348 cm - Clay, olive gray dense clay, with very thin olive gray sandy clay horizons, minimal shell content and occasional small wood fragments

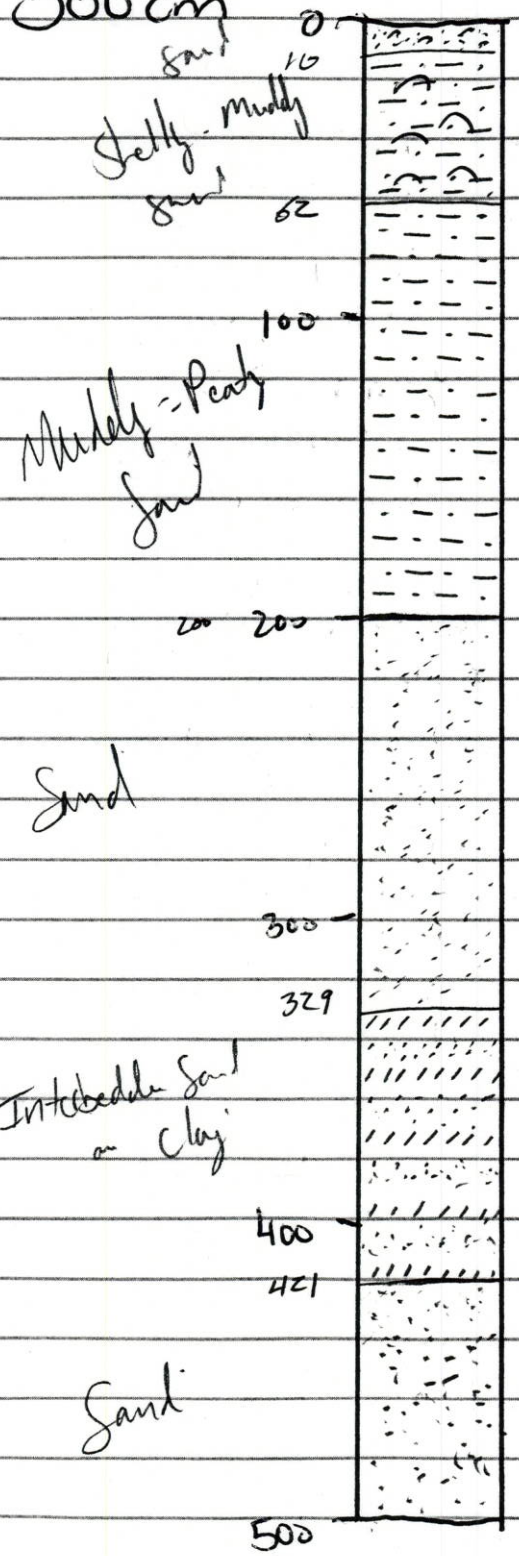
(cont.)

222 - 348cm cont. -

clean sand layer from 313 - 319 cm indicate possible storm event

348 - 532 cm - Mud, olive brown, soft horizontally laminated mud with alternating dark and light clay horizons, moderate disseminated organic flecks throughout and occasional small wood fragments and shell pieces.

10BIM06-03 500cm



0-10 cm. Sand, dark olive gray, moderately sorted medium sand, with moderate disseminated shell hash - possible heavy minerals

10-62 cm - Sand, slightly muddy olive gray, very shelly, moderately sorted, medium quartz sand, with abundant disseminated shell hash and large shell frags, occasional dark olive gray muddy sand clasts throughout, shell content decreases from 42-62cm with olive gray clay clasts increasing in frequency in the same interval

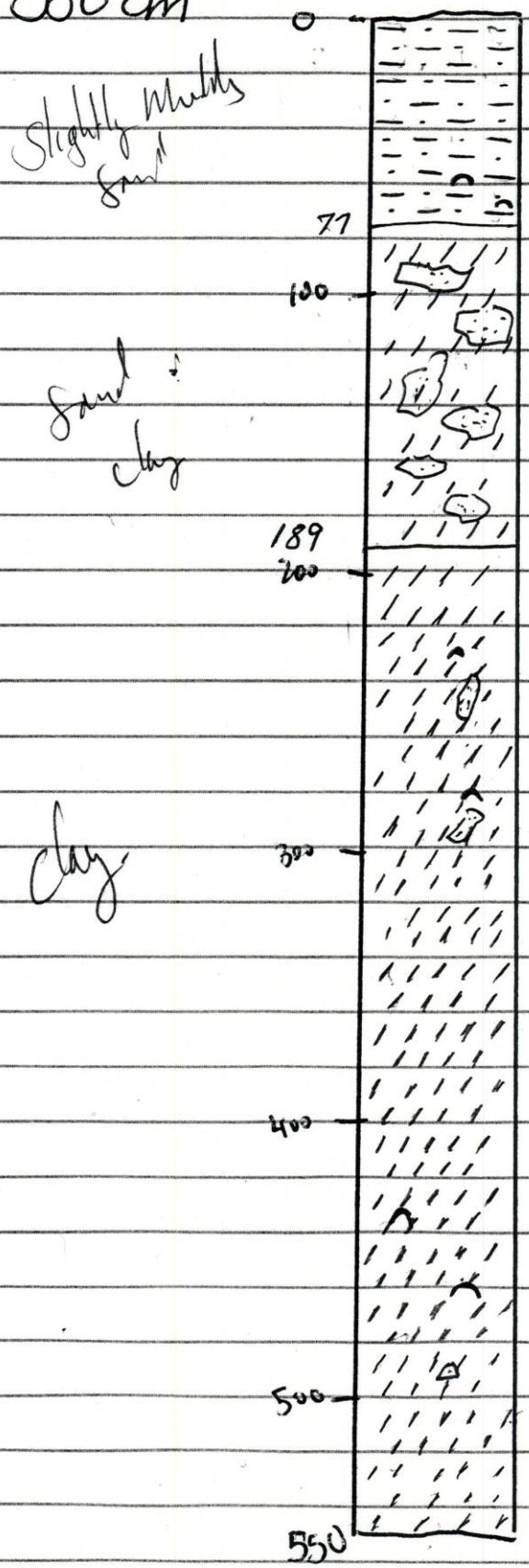
62-200 cm - Muddy - Peaty Sand, olive gray and grayish brown mottled muddy sand and mud peat lenses with mud/peat content increasing from 62-161 cm then decreases from 161-200 cm, scattered shell hash and a dense shell hash cluster at 114 cm

200-320 cm - Sand, light grayish brown well sorted, medium to fine quartz sand with scattered shell frags large and small and occasional olive gray muddy sand clasts, thin shell horizons around 260 cm indicate inclined bedding

329 - 421 cm · Sand and Clay, light grayish brown, well sorted, very fine quartz sand interbedded with olive gray clay horizons of various thickness horizontally bedded, with small wood frags abundant from 330-353 cm thin organic horizon at 360 cm and a dense shell hash deposit from 370 - 379 cm.

421 - 500 cm · Sand, light grayish brown well sorted, very fine quartz sand with only scattered small shell hash frags and what looks like abundant small mica flakes, occasional thin shell hash horizons indicate horizontal bedding throughout, occasional small brown organic fluff throughout as well.

1031M06-04 550 cm

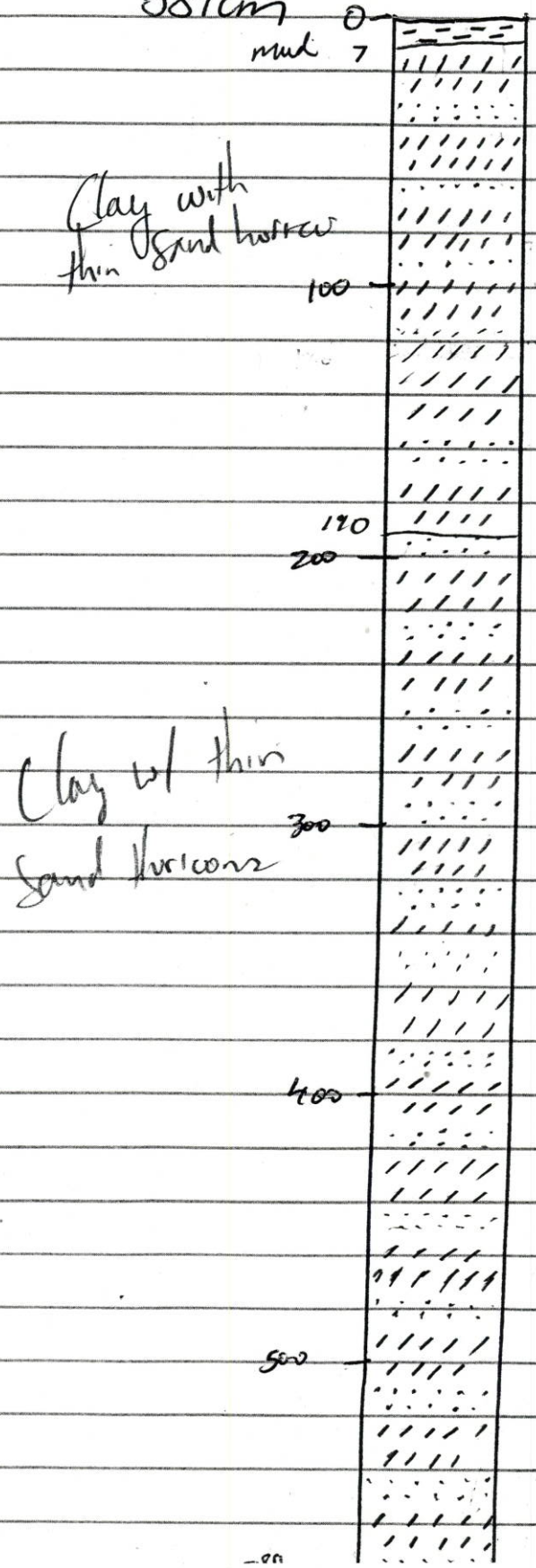


0-77cm - Sand, grayish brown, well sorted fine, slightly muddy sand, mottled with cleaner sand lenses throughout, minimal scattered shell frags.

77-189 cm - Sand an Clay, gray brown, well sorted fine quartz sand and olive gray dense clay, with clay content increasing down core, scattered small shell frags throughout.

189-550cm - Clay, olive gray, dense massive clay, with occasional grayish brown sand lenses and small shell frags throughout

10BIM06-02 589cm



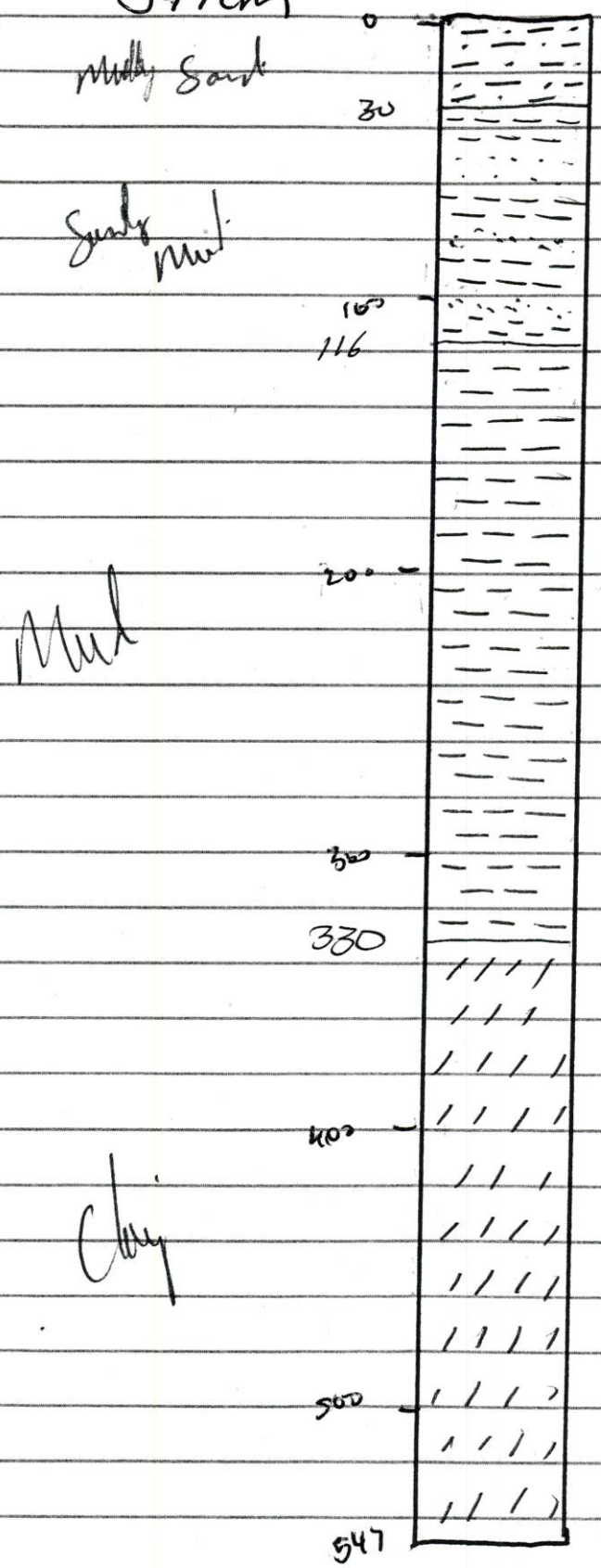
0-7cm - Mud, grayish brown soft silty mud

7-190cm - Clay and Sand, grayish brown, dense clay with thin light grayish brown sand horizon, very little shell content and apparent v. small mica flakes

horizontal bedding

190-589cm Clay and Sand, olive gray dense clay with light grayish brown shelly sand interbeds of various thickness sand is very shelly with shell hash scattered wood fragments throughout, dense sand horizon from 290-299cm, sand horizon indicates horizontal bedding

10BIM06-05 547cm



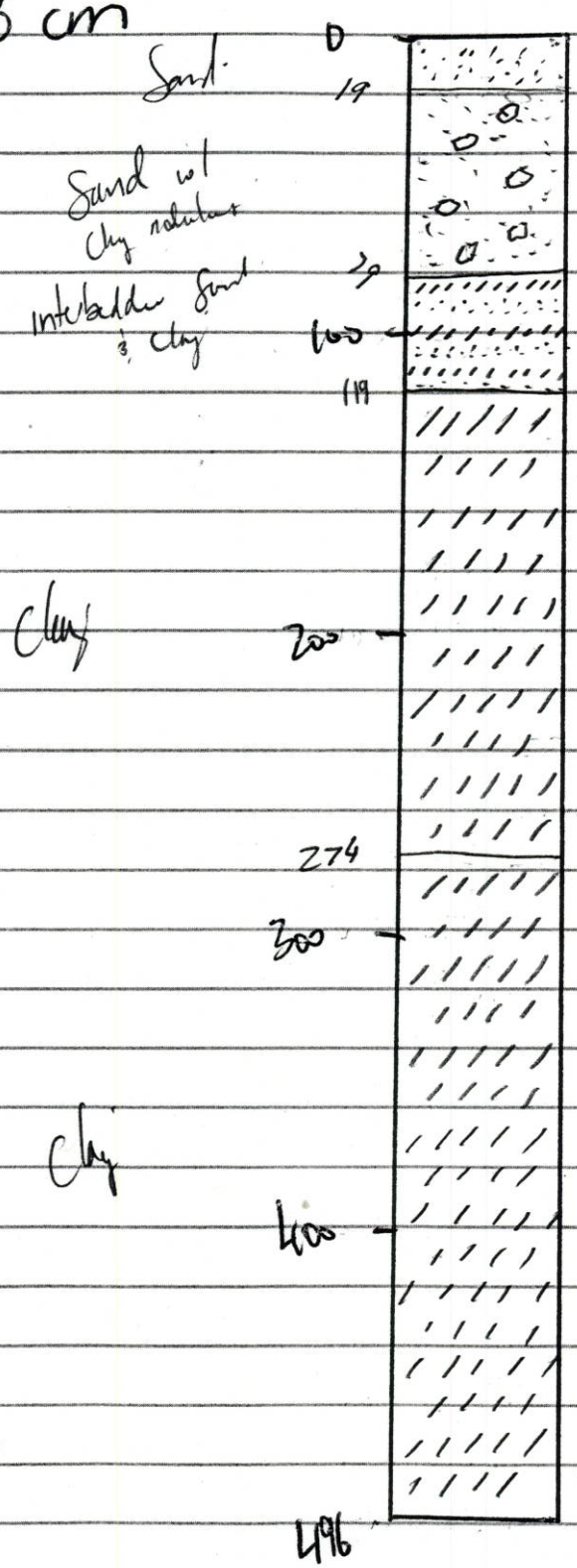
0-30cm - Muddy Sand, brownish olive, well sorted fine muddy sand with abundant disseminated shell hash.

30-116 cm - Sandy Mud, brownish olive mud with thin sand horizons and lenses throughout very little shell content except for a dense shell hash horizon at 104cm. Sand content decreases down core.

116-330 cm - Mud, grayish brown, massive mud grading into olive gray down core with very little shell content, unit is ~~moderately~~ sorted with massive bedding.

330-547 cm - Clay, olive gray, dense massive clay with scattered shell frags throughout, small sand lenses begin to appear around 460cm and increase in frequency down core, small wood fragments and organic fluid from 520-547 cm.

108IM06-10 496 cm



0-19cm - Sand, brownish gray and dark gray poorly sorted, slightly muddy quartz sand with minimal disseminated shell hash and v. dark gray heavy mineral (?) lenses and clusters

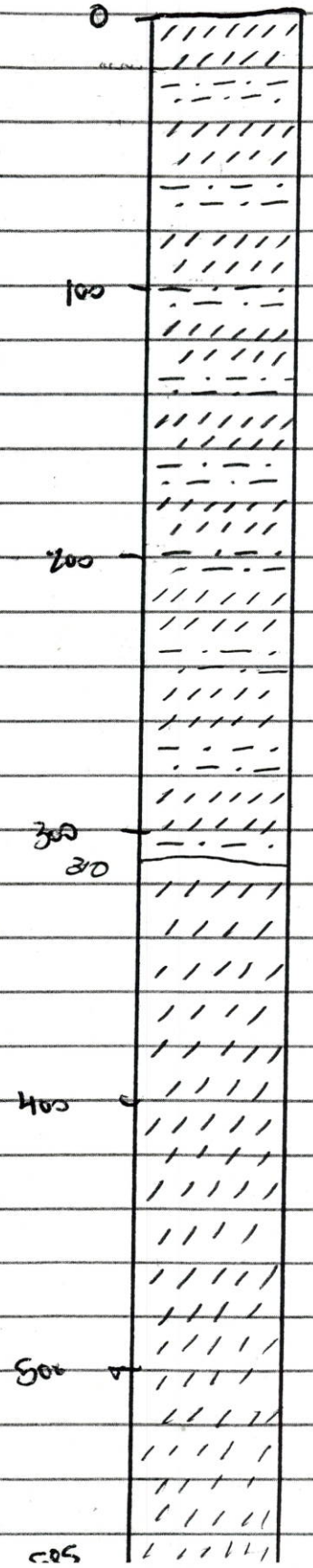
19-79 cm - Sand, light grayish brown, well sorted fine quartz sand with abundant sandy olive gray clay filled burrows throughout minimal disseminated shell hash

79-119cm - Sand and Clay, light grayish brown, well sorted, fine quartz sand interbedded with olive gray clay with horizontal bedding, virtually no shell content

119-274cm - Clay, olive gray, dense massive clay with small sand clasts throughout, and occasional wood fragments and shell fragments throughout as well

274-496cm - Clay, horizontally laminated light and dark clay layers, with an occasional silty clay horizon, no shell content visual

10B1M06-01 585cm



Clay ?
Silt ?

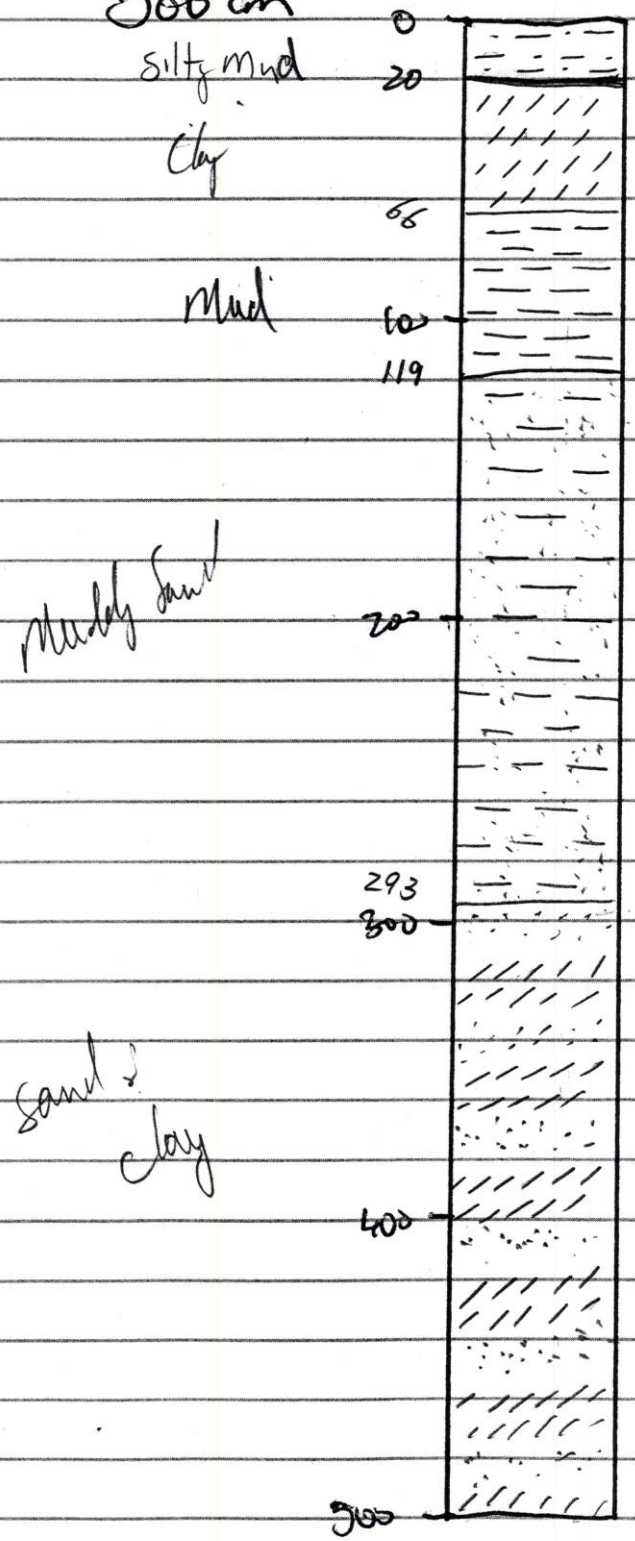
Clay

dark

0 - 310 cm : Clay and Silty Mud, olive gray, relatively soft
dark gray → massive clay with silty mud interbeds of various thickness ranging from < 1 cm to over 6 cm, ~~occasional~~ ~~small~~ ~~small lenses~~ throughout, minimal disseminated shell hash.

310 - 585 cm : Clay, dense, massive olive gray clay with abundant fragmented and intact but articulate bivalve shell

10BIM06-06 500 cm



silty mud,

0 - 20 cm - brownish olive, soft, saturated silty mud

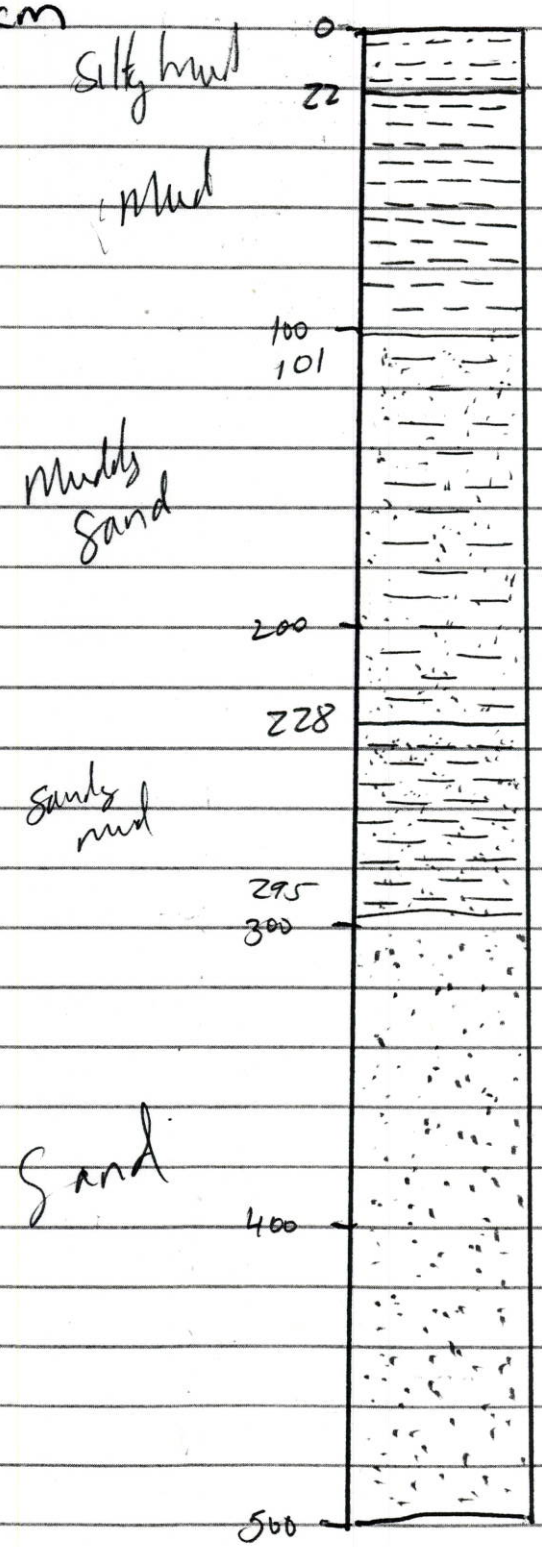
20 - 66 cm - Clay, olive gray soft massive clay with small olive brown silty mottles throughout, sporadic disseminated shell hash angular contact at base extended to 62 - 68 cm

66 - 119 cm Mud, brownish olive, soft saturated massive mud with virtually no shell (visible) content

119 - 293 cm - Muddy Sand olive gray to olive brown, mottled muddy sand with abundant olive gray clay filled burrows and abundant disseminated shell hash, clay filled burrows increase in frequency and size down core to 228 cm then decrease from 223 - 293 cm

293 - 500 cm Sand and Clay, light grayish brown well sorted fine quartz sand with olive gray clay interbeds and lenses with clay content increasing down core, clay horizons dominate by 400 cm, very little scattered shell hash

10BIM06-07 500cm



0-22cm - Silty Mud, brownish olive. Soft saturated silty mud

22-101 cm: Mud, olive gray, soft, soupy, massive mud with scattered shell frags.

101 - 228cm - Muddy Sand, olive gray, well sorted fine muddy sand with abundant fragmented but intact but inarticulate bivalve shells. occasional dark olive gray mud clasts throughout

228-295cm - Sandy Clay, olive gray, relatively dense clay with muddy sand pockets throughout and localized shell clasts. Sand content decreases from 228 to 250cm then increases from 250-295cm.

295-500cm, Sand, light grayish brown well sorted, v. fine quartz sand with olive gray clay lenses (burrows) throughout and a 2cm thick clay horizon from 467-469cm wood fragments throughout core and minimal disseminated shell hash.

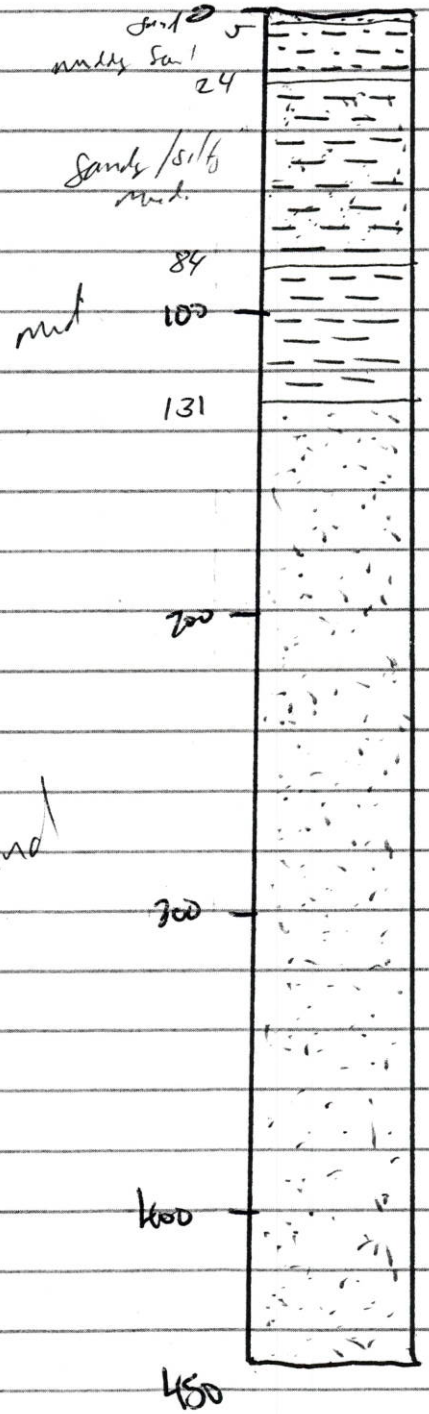
0-31 cm - Silty Mud, dark olive gray to dark gray soft, saturated silty mud.

31-115 cm - olive gray to dark olive gray soft, saturated mud, with minimal disseminated shell hash, bedding is massive

115-295 cm - Clay, horizontally laminated light, and dark olive gray, grayish yellow and dark gray clay bands, with sporadic v. small shell frags throughout

295-544 cm - Clay olive gray, massive dark clay with localized heavy shell hash clusters, and minimal disseminated shell frags, occasional thin clayey sand horizons with abundant shell hash content.

10BIM06-11 450cm



0-5cm - Sand, dark gray, poorly sort, muddy sand, with dark mineral presence

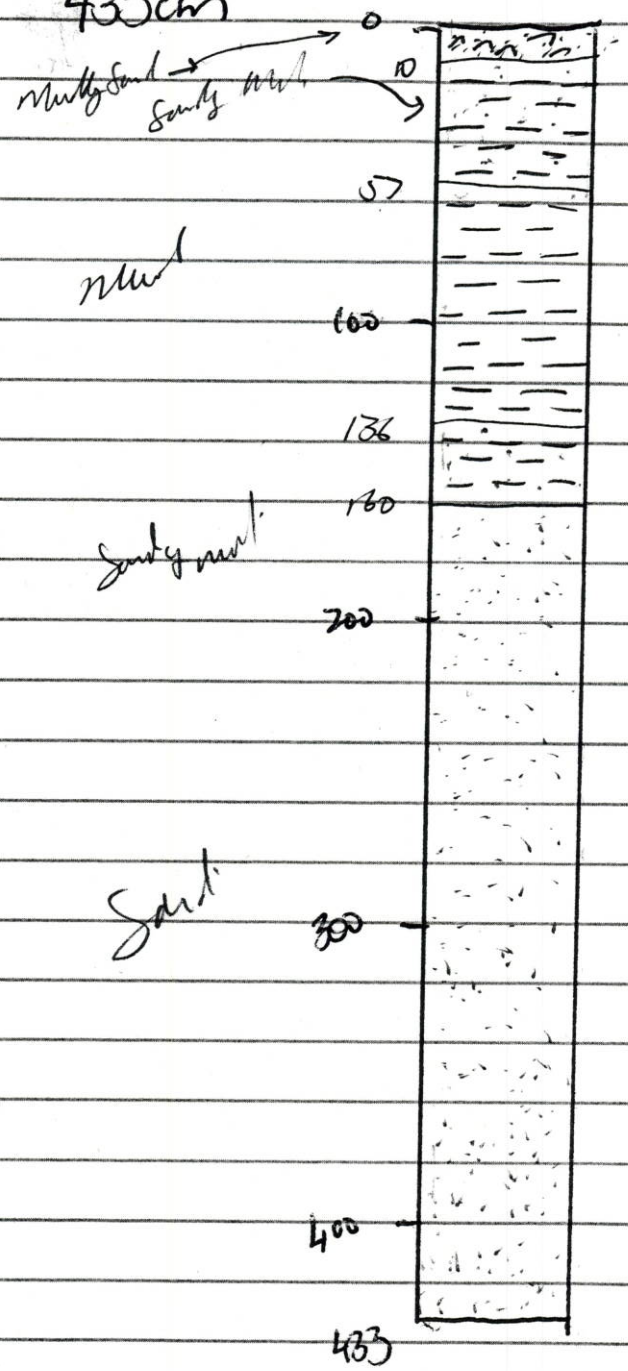
5-31cm - Muddy Sand, dark olive gray muddy sand, with moderate disseminated shell material

31-84cm - Sandy Mud → Silty mud, dark olive gray, sandy mud grading into silty mud down core with scattered shell frags and possible datable shell material at basal contact, occasional clean sand lenses throughout

84-131cm - Mud, brownish gray, soft fresh mud with scattered small, sandy mud lenses, No visual shell material

131-450cm - Sand, light grayish brown, moderately to well sorted, fine to medium quartz sand with olive gray clay filled burrows throughout, but sand becomes cleaner down core, abundant shell hash throughout with possible datable material, between 360-375cm, mottled, bioturbated

10BIM06-12 433cm



0-10 cm - Muddy Sand, olive gray and dark gray muddy sand with abundant disseminated shell hash, mottled bedding with light and dark sand lenses - possible burrows, mud, or organics

10-57 cm - Sandy Mud, olive gray soft sandy mud, with sand content decreasing down core, very little disseminated shell hash

57-136 cm - Mud, brownish olive, soft inorganic mud, slight change in color (brownish olive → olive gray) around 117 cm, no shell

136-160 cm - Sandy Mud, olive gray mud with sand lenses grading into sandy mud, a couple scattered shell hash

160-433 cm - Sand, light olive gray with mud lenses at top becoming darker down core with grayish brown sand with olive gray muddy sand lenses throughout that decrease in size and frequency down core, very little disseminated shell hash with localized heavy shell hash chunks

0-60 cm - Sandy mud, olive gray and dark gray
Soft Saturated sandy mud with only scattered
small shell frags. Sand content decreases
down core

60-205 cm - Muddy Sand, brownish olive muddy
sand, Sand is poorly sorted with
abundant disseminated shell hash,
mud content decreases down core

205-359 cm - Sand, light grayish brown, well
sorted medium sand with moderate
disseminated shell hash and a denser
shell hash horizon at 269-270 cm,
clay filled burrows throughout that
decrease in size and frequency
down core

359-362 cm Clay, olive gray clean clay
with very thin < 1mm silt horizons
horizontally bedded

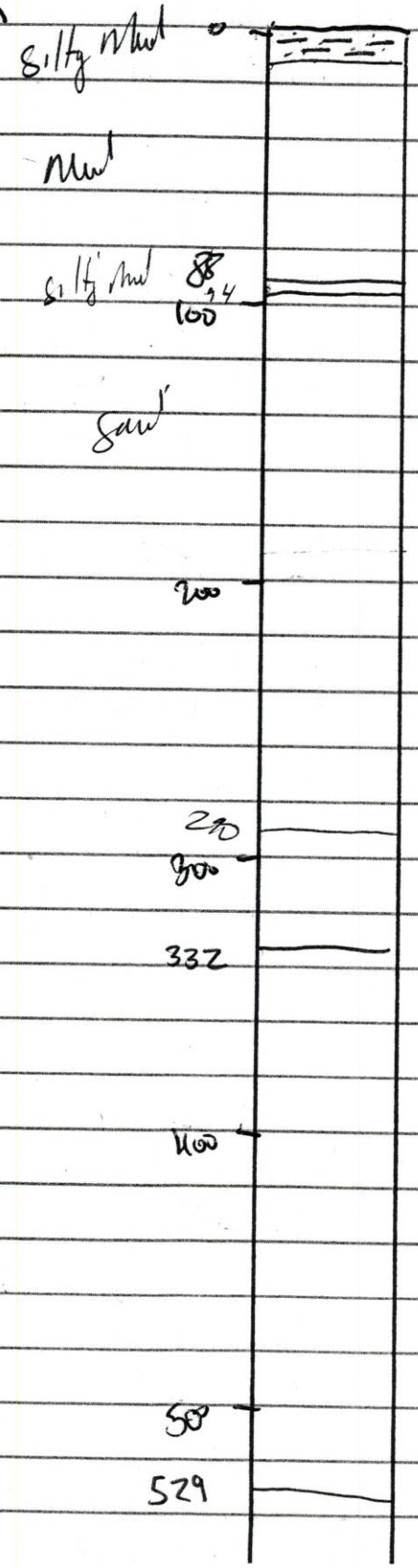
362-420 cm - Sand, returns to light grayish
brown, well sorted, medium to fine quartz
Sand with moderate disseminated
Shell and and dense shell hash horizon
from 363-371 cm and 417-419 cm, occasional
small clay filled burrows

(over)

420-478cm - Sand, light gray, brown, well sorted very fine quartz sand with moderate dissemination shell hash

478-488cm - Sand and Clay, light gray, brown and olive gray mottled very fine sand and clay with moderate dissemination shell hash

10BIM06-14B 564cm



0-10 cm - Silty Mud, olive gray soft, saturated silty mud, no shell.

10-89 cm: Mud, brownish gray grading into olive gray with the transition @ approx. 56 cm, massive, no shell, occasional silty mud lenses and thin horizons

89-94 cm - Silty mud, returns to soft, saturated silty mud olive gray in color

94-290 cm - Sand, light brownish gray grading into light grayish brown as mud content decreases, moderately sort fine to medium, with abundant muddy sand filled burrows throughout, moderate disseminated shell hash from 94-140 cm then minimal shell content from 140-290 cm

290-332 cm Sand and clay, light grayish brown moderately sorted sand and olive gray dense clay interbed with thin organic horizons and clasts throughout, clay content increases down core, bedding is horizontal with some deformation from coring, large intact articulate oyster shell @ 292 cm.

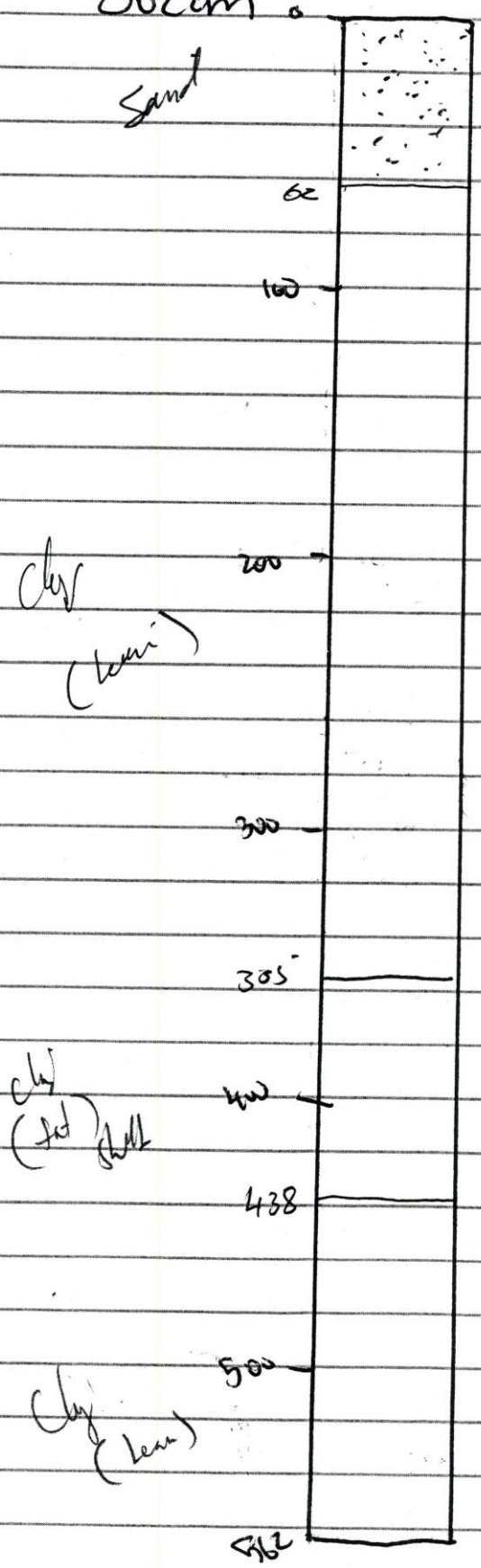
(over)

332 - 529cm - Clay, olive gray dense clay with thin muddy sand horizons and dense shell hash horizons and lenses throughout. woody organic fragments in thin and thin horizons throughout as well.

529 - 564cm - Clay and Sand, olive gray clay, grayish brown clay and olive gray muddy sand, mottled together with moderate disseminated shell hash.

1031M06-15

562cm



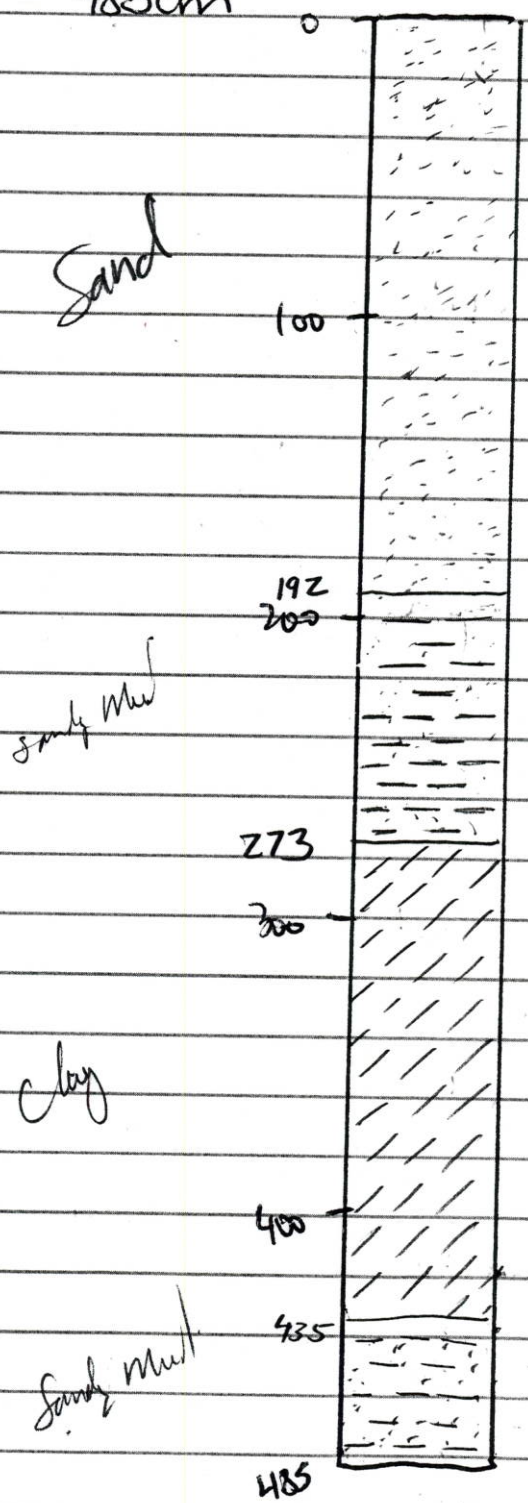
0-62 cm - Sand, grayish brown with yellowish orange poorly sorted moderately shelly grading into dark olive gray muddy sand down core with olive gray clay lenses and horizons throughout

62-305 cm - Clay, brownish gray and olive gray horizontally laminated clay with virtually no shell content, occasional small silts, saturated mud [illegible] lenses throughout

305-427 cm - Clay (fat), olive gray somewhat silty clay with abund disseminated shell hash and localized heavy shell lenses/clusters and woody organic frags throughout

427-562 cm - Clay (lean), olive gray massive clay with minimal disseminated shell frags and localized heavy shell clusters occasional "fat" clay lenses throughout as well.

10BIM06-18 485cm



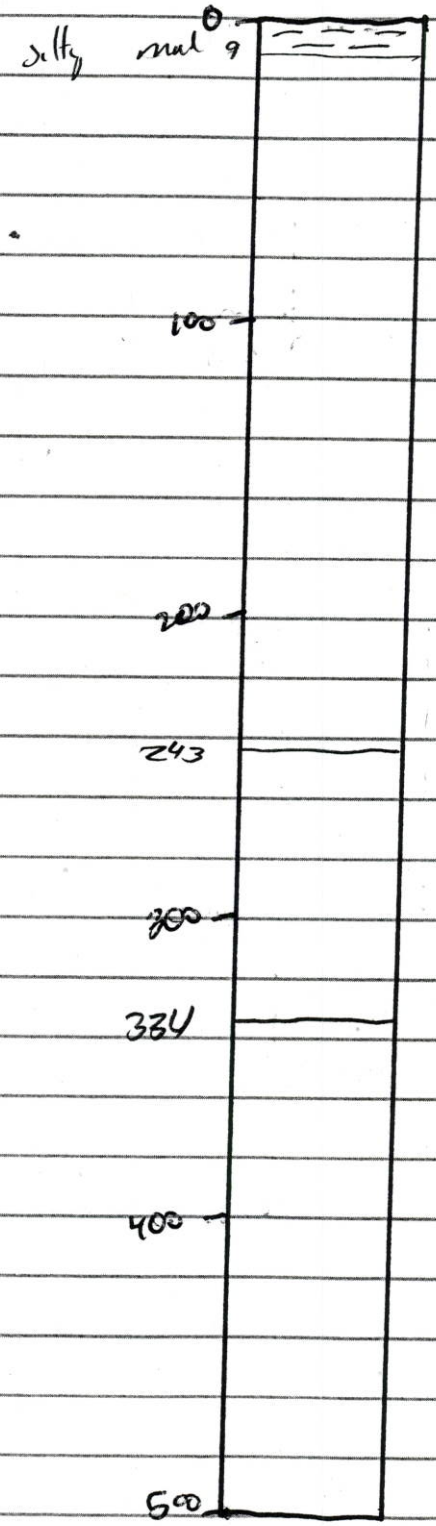
0 - 192cm - Sand, light grayish brown, moderately sorted fine → medium quartz sand, with abundant small olive gray muddy sand filled burrows and occasional dark gray / black organic clasts lenses, scattered disseminated shell hash, muddy sand content increase downcore with clay lenses from 174 - 192cm

192 - 273cm - Muddy Sand → Sandy mud, olive gray clay with light brown and light grayish brown mottled muddy sand, clay content increase downcore, minimal disseminated shell hash.

273 - 435cm - Clay, grayish brown, horizontally laminated with brownish gray clay, scattered muddy sand lenses throughout, scattered shell frags, large inclined dark clay with sand inside (burrows) from 290-295 and 300-305

435 - 485cm - Sandy Clay → Muddy Sand, olive gray sandy clay with light brown and light grayish brown sand horizons / lens. Sand content increase downcore minimal disseminated shell hash

10B1M06-16 500cm



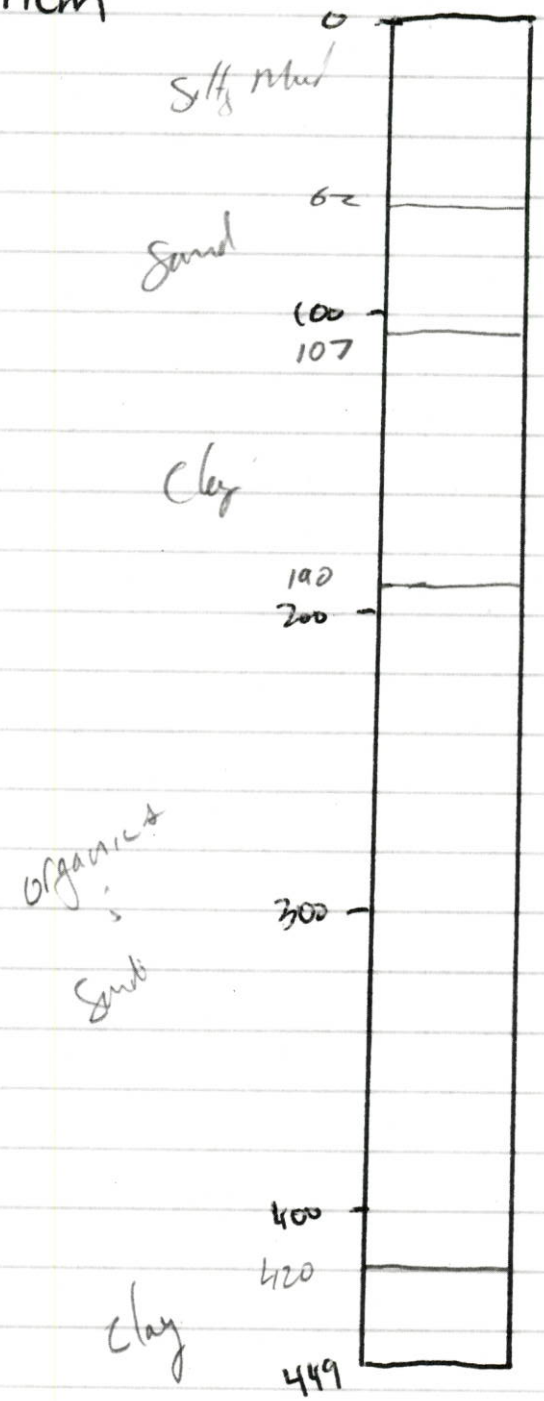
0-9cm - Silty Mud, olive gray to dark gray, soft, saturated silty mud with no visual shell content

9-243cm - Interbedded Clay and muddy sand, olive gray clay and olive gray to brown, olive muddy sand horizon with sand horizons containing abundant disseminated shell hash, shell consist of at most fragmented bivalves

243-334cm - Clay, alternating light and dark horizontally laminated clay loam, with only scattered v. small shell frags

334-500cm - Clay and muddy sand, predominately clay with muddy sand filled burrows, only scattered shell hash in clay but abundant shell hash within muddy sand layers, sand lenses decrease in frequency down core

10B1M06-17 449cm



0-62 cm - Silty Mud, dark olive gray to dark gray. Soft saturated silty mud with no visible shell content. Colors alternate indicating somewhat horizontal bedding with disturbance from coring, some units seem organic in nature

62-107 cm - Sand, gray to dark olive gray, well sorted fine sand with abundant v. small shell frags

107-190 cm - Clay brownish olive soft clay with thin silty clay horizons and small lenses throughout, large clam shell at 132 cm

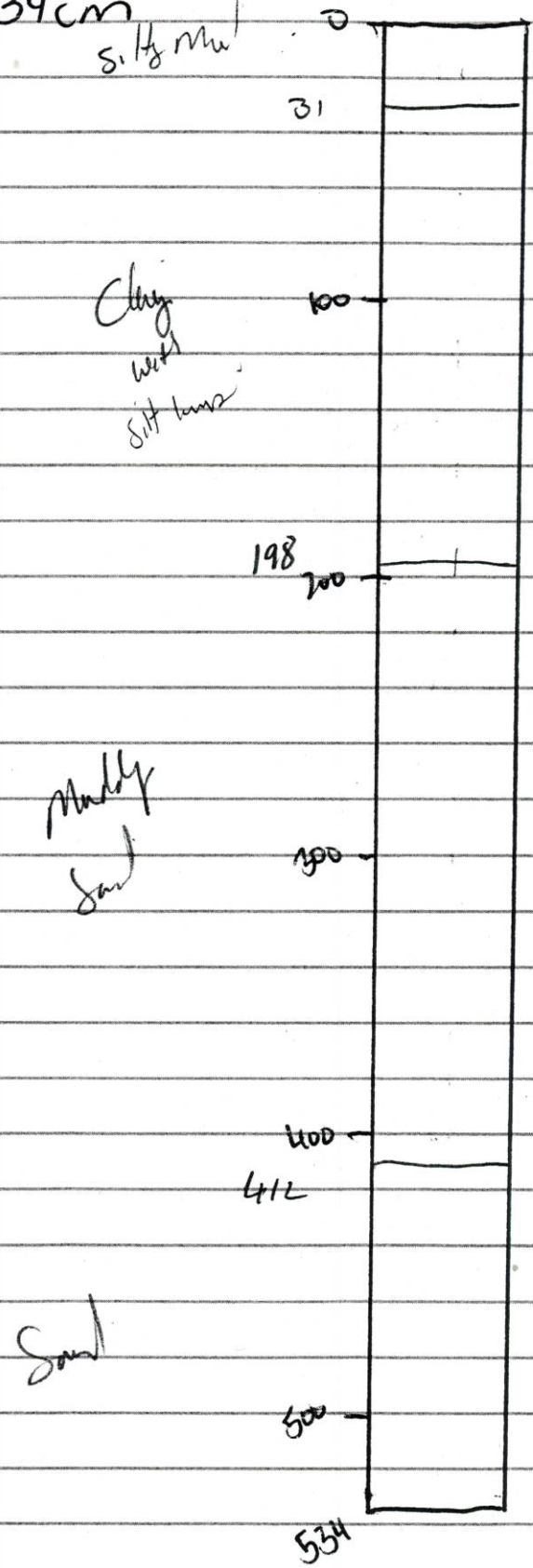
190-420 cm - organic rich sand olive gray, to brown to light brown, with thin clay horizons 190-277 which are bioturbated (heavy) Sand is well sorted, fine with thin highly organic horizons through but decrease in frequency down core. minimal disseminated shell hash. bedding is horizontal with some areas marked by heavy bioturbation, occasional thin cleaner sand horizons that are moderately sort, mud is light brown in color, shell content decreases down core

(over)

420 - 449cm Clay, olive gray very dense (almost indurated) clay with small, clay sand burrows (burrows) throughout, there is a thin white horizon @ 442 cm with an unknown origin.

* very interesting core

10B1M06-21 534cm



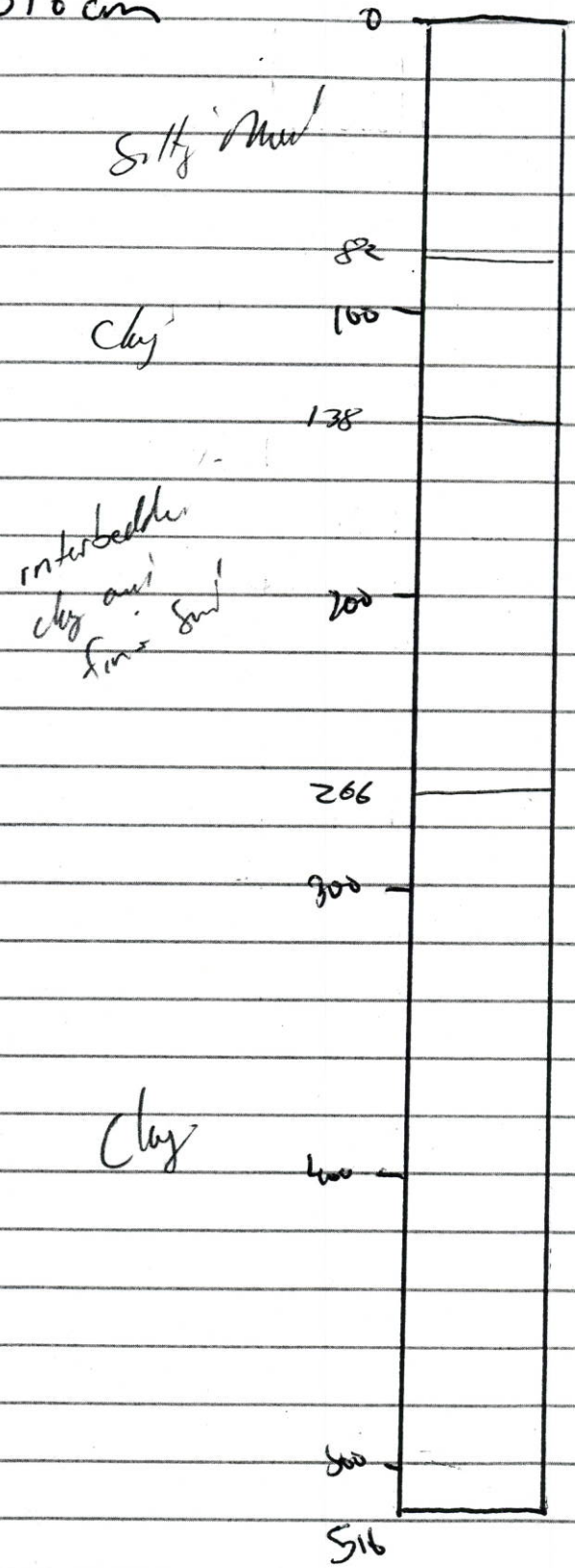
0-31cm - Silty Mud, dark olive gray and dark gray soft, saturated silty mud, no visible shell content

31-198cm - Clay, olive gray, relatively soft massive clay with small silt lenses throughout, minimal disseminated shell hash

198-412 - Muddy Sand, olive gray muddy sand with mud content decreasing down core - transition zone between clay and sand, abundant disseminated shell hash and occasional small clay lenses and thin clay horizons throughout

412-534cm - Sand, light brown moderately sorted, fine to medium quartz sand with abundant disseminated shell hash and ~~dense~~ shell hash layer, occasional small muddy sand deposits - old beach complex with varying energy, faint horizontal bedding

10BIM06-22 516 cm



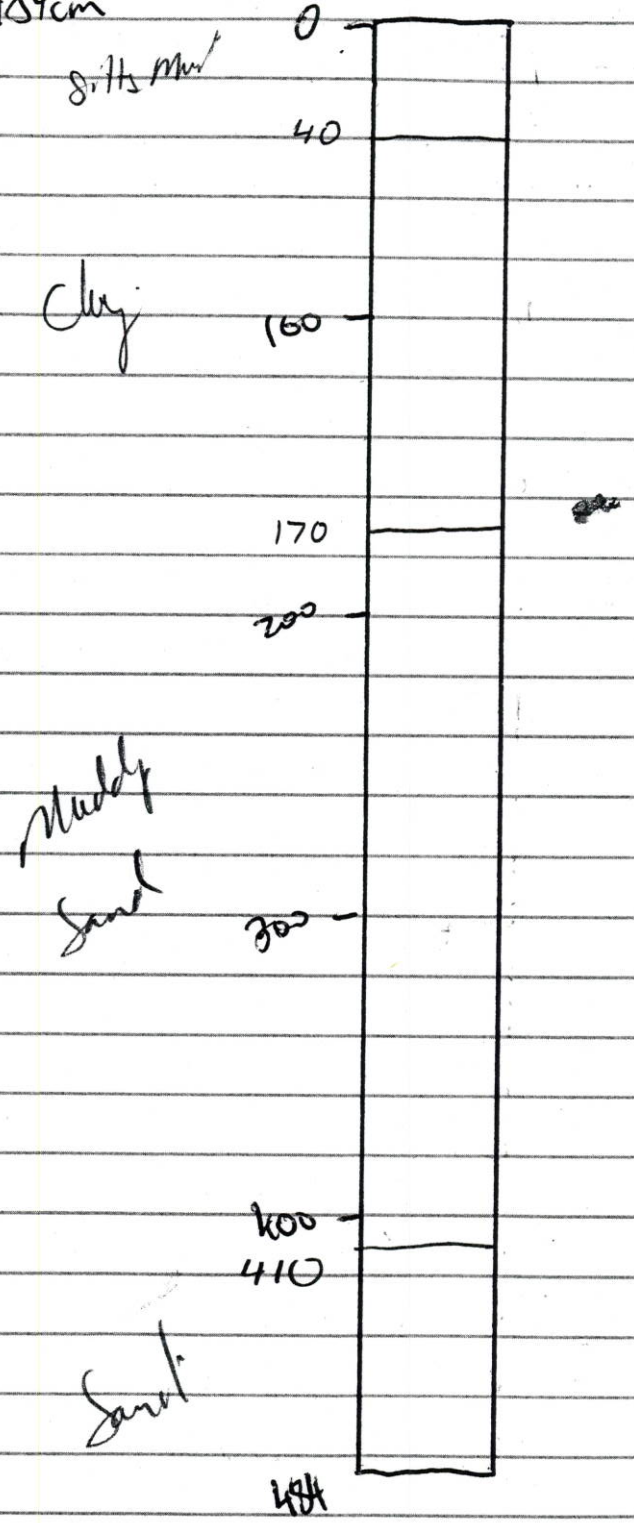
0-82 cm · Silty Mud, olive gray to brownish olive
soft saturated, massive sandy silty mud
with only scattered shell frags.

82 · 138 cm · Clay, olive gray soft massive
clay with no visible shell content

138 · 266 cm · Interbedded Clay and Sand
olive gray clay with thin light
brown, well sorted very fine sand
laminations, only scattered shell hash.

266 · 516 cm · Clay, olive gray dense
seemingly massive clay with
only scattered shell fragments
and an intact but articulated
dense shell @ 430 cm

10BIM06-19 484cm



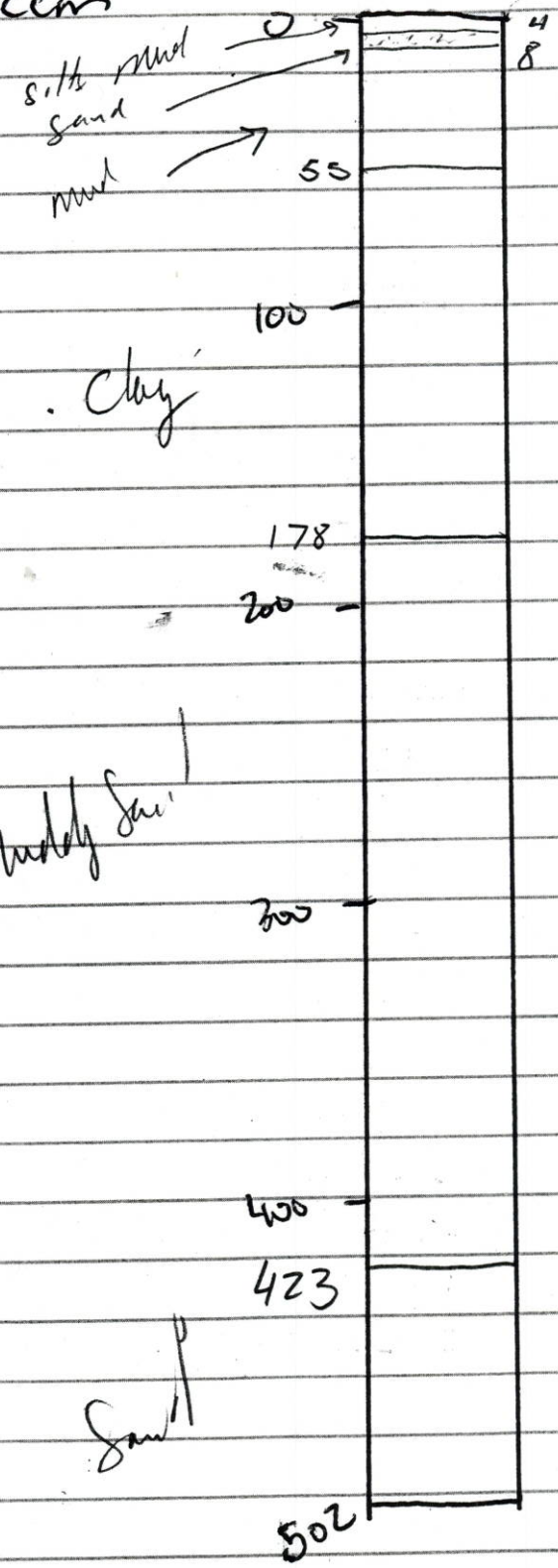
0-40cm - Mud, brownish olive, soft, saturated silty mud, with only scattered v. small shell fragments

40-170cm - Clay, olive gray, relatively soft, massive clay with silty mud lenses throughout, minimal disseminated shell hash

170-458cm - Muddy sand, olive gray grading into light olive brown down core as mud content decreases, abundant disseminated shell material, and a dense shell deposit consisting of fragment and intact but inarticulate clam shells from 180-190 cm, large inarticulate intact clam shell @ 371 cm as well, mottled bedding *

458-484 cm - Sand, light brown, well sorted very fine sand with dense shell hash horizons containing shells of all types possible old beach face environment.

10BIM06-20 502cm



0-4cm - Silty Mud, dark olive gray soft saturated silty mud, with no visible shell content

4-8cm - Sand, light olive brown, well sorted v. fine, slightly mud quartz sand, no visible shell

8-55cm - Mud, olive brown, soft saturated mud with silty mud lenses throughout minimal disseminated shell hash

55-178cm - Clay, olive gray, massive relatively soft clay, with minimal disseminated shell hash

178-423cm - Muddy Sand, olive gray becoming light olive gray down core as mud content decreases, ~~[illegible]~~ moderate disseminated shell hash, with dense shell clusters through out intact but inarticulate bivalve (clam) from 183-200cm, large gastropod @ 335cm, bedding is mottled

423-460cm - Sand, light grayish brown well sorted sand with thick, dense shell hash horizon - abundant from 423-460cm

over

460-502cm - Sand, light grayish brown, well sorted fine quartz sand with moderately disseminated shell hash and occasional olive gray muddy sand clast

10BIM06 - 23 453cm

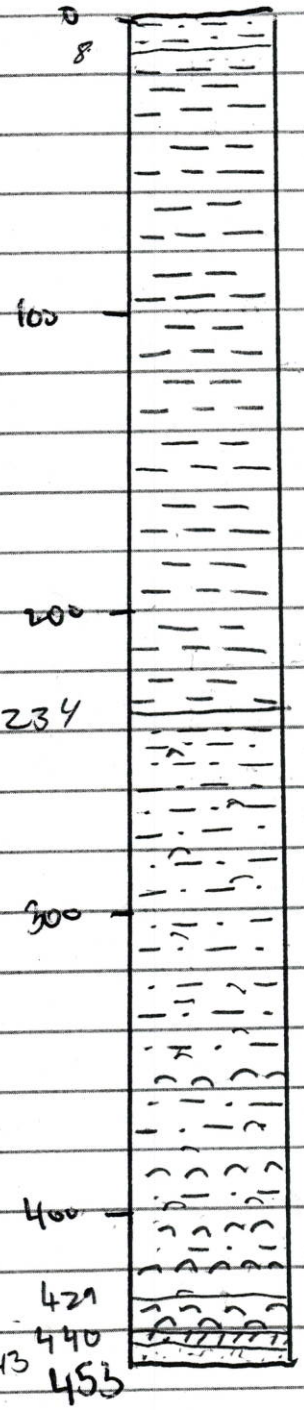
silty mud

Mud

Muddy Sand

Clay

Sand



0-8cm - Silty Mud, dark gray, soft, saturated silty organic rich (?) mud.

8-234cm - Mud, brownish olive, massive soft mud, with occasional silty mud lenses and thin horizons, minimal disseminated shell hash

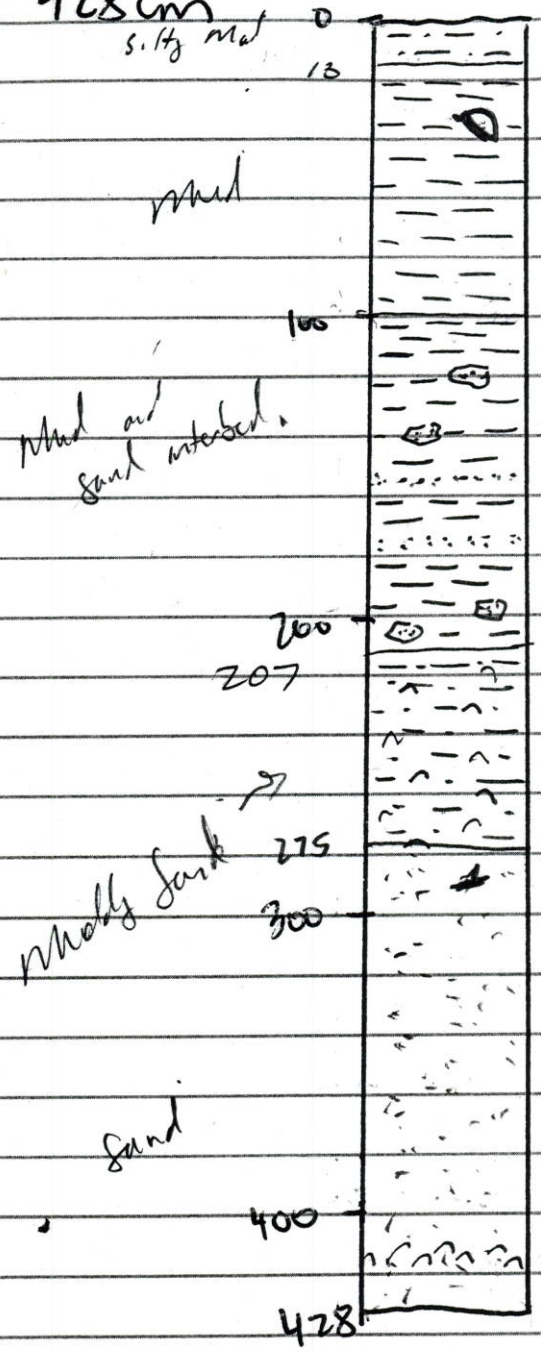
234-429cm - Muddy Sand, olive gray, very shelly muddy sand with mud content decreasing steadily down core from ≈ 30% mud @ 234 to ≈ 10% mud @ 429cm, abundant disseminated shell hash and frequent dense shell hash clusters throughout - clusters thin into dense shell hash hash hard from 415-429cm

429-440 cm - Shell, dense shell hash horizon (90% shell) with a large intact gastropod @ the basal contact

440-443cm - Clay, olive gray soft massive clay

443-453cm - Sand light brown, well sorted very fine quartz sand with moderate disseminated shell hash

10BIM06-24B 428cm



0-13 cm: Silty Mud, dark gray and olive gray
Soft, Saturated silty mud

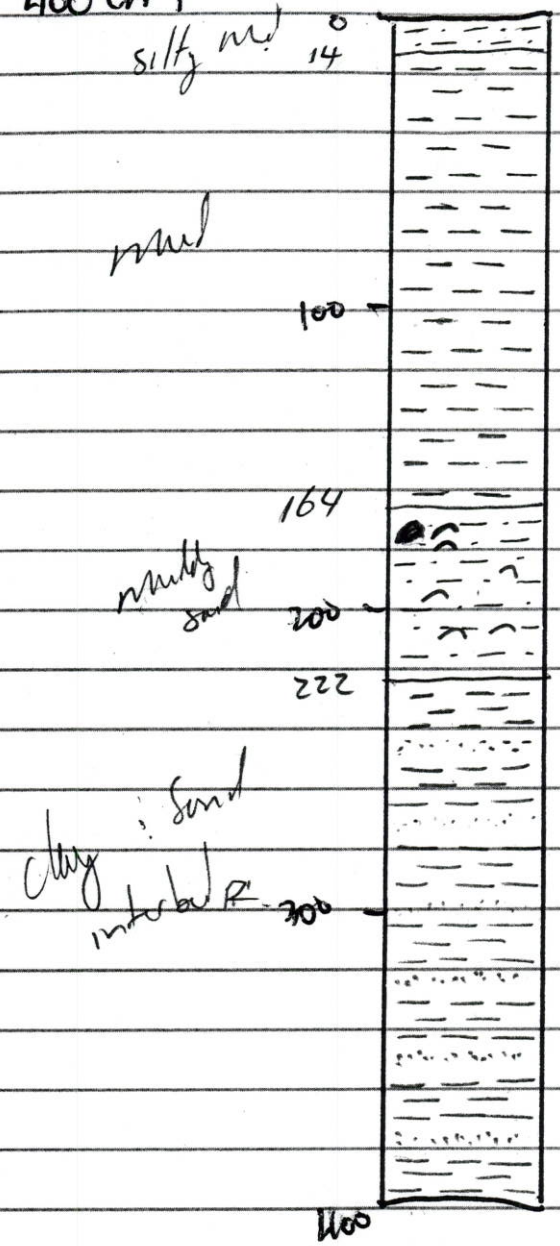
13-100cm: Mud, olive gray, soft massive
mud with an intact very large oyster
shell at 26-36 cm

100-207cm: Mud and Sand, olive gray soft
mud with thin, very fine, sand horizons
and lenses orientated horizontally (predominantly)
little disseminated shell hash

207-275cm: Muddy Sand, olive gray
to brownish olive, muddy/clayey
sand with abundant disseminated shell
hash, mud content decreases down
core from ≈ 30% @ 207 → 10%
@ 275cm

275-428cm: Sand, light brown, well sorted
fine quartz sand with light olive
gray muddy sand filled burrows
throughout, moderate disseminated shell
hash and a small wood fragment @
285cm, dense shell hash horizon
from 411-415 cm, occasional
clay lenses (clay filled burrows) from
336-359cm

10BIM06-25 400 cm



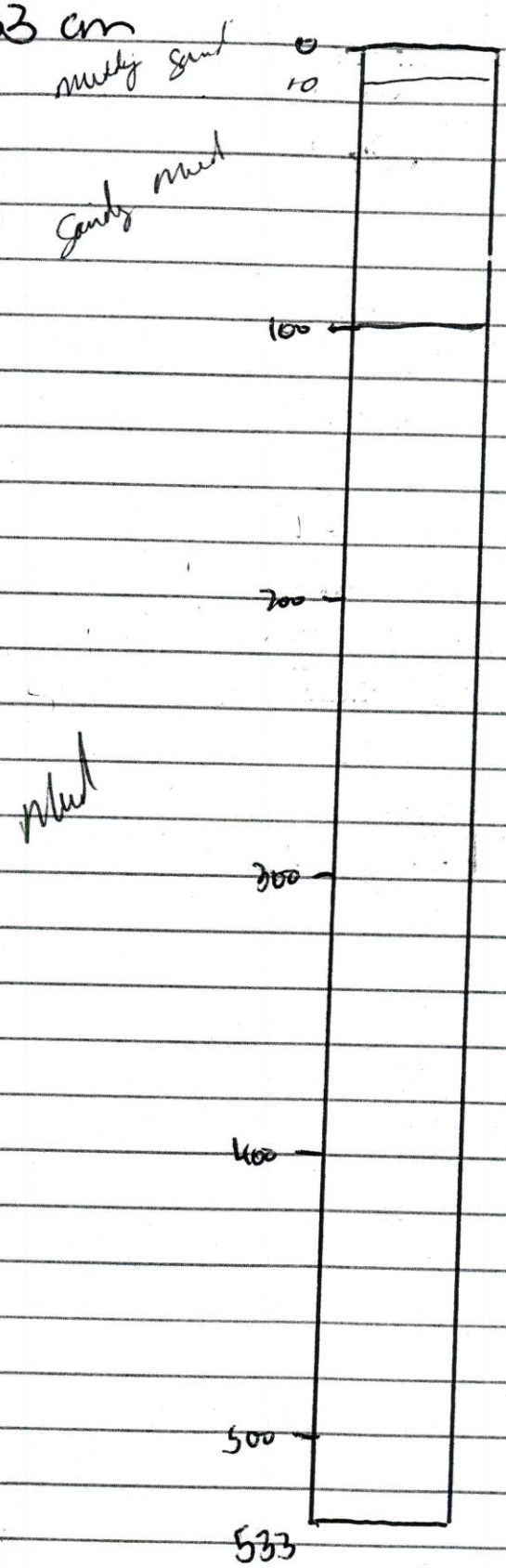
0-14cm - Silty mud, dark gray and olive gray soft, massive saturated silty mud, no shell visible

14-164 cm - Mud, olive gray, somewhat silty at top massive soft mud w/ minimal disseminated shell hash.

164-222 cm - Muddy Sand, olive gray muddy sand with sand content ≈ 60-55%, large intact clam shell surrounded by crushed bivalves at 172 cm

222-400cm - Clay and Sand, interbedded olive gray relatively dense horizontally laminated clay and light brown, well sorted, very fine sand, shell hash abundant within the thin sand horizon, Sand from 391-400 is somewhat organic rich muddy sand brown in color.

10BIM06-26 5.33 cm



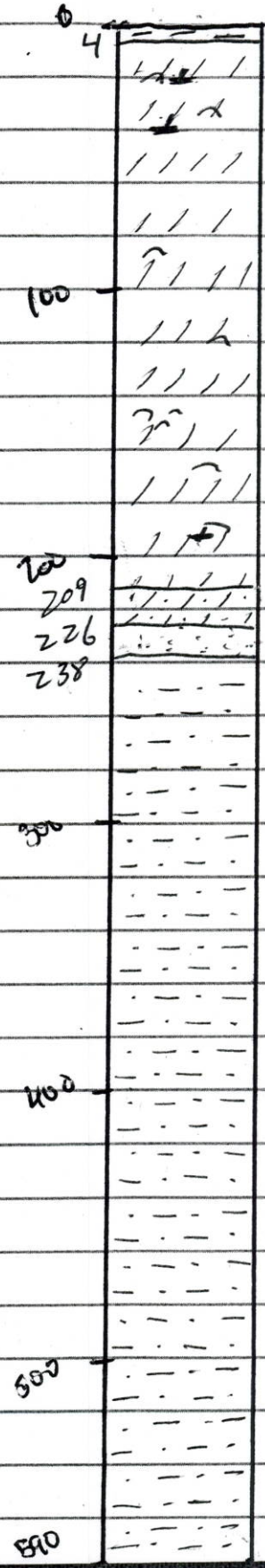
0 - 10cm - Muddy Sand, dark gray and dark olive gray, organic rich muddy sand, no shells visible

10 - 100cm Sandy Mud, brownish olive sandy mud, with sand content decreasing down core (≈ 30% @ 10 → ≈ 10% @ 100 cm)

100 - 533cm - Clay, olive gray, relatively dense horizontally laminated, minimal disseminated shell hash with occasional small sand lenses and thin horizons throughout, sand content decreases down core from ≈ 10% 100 - 200 cm then 5% for 200 - 533 cm

10BIM06-28 59cm

organic rich mud



0-4cm - Mud, dark olive gray, organic rich silty mud

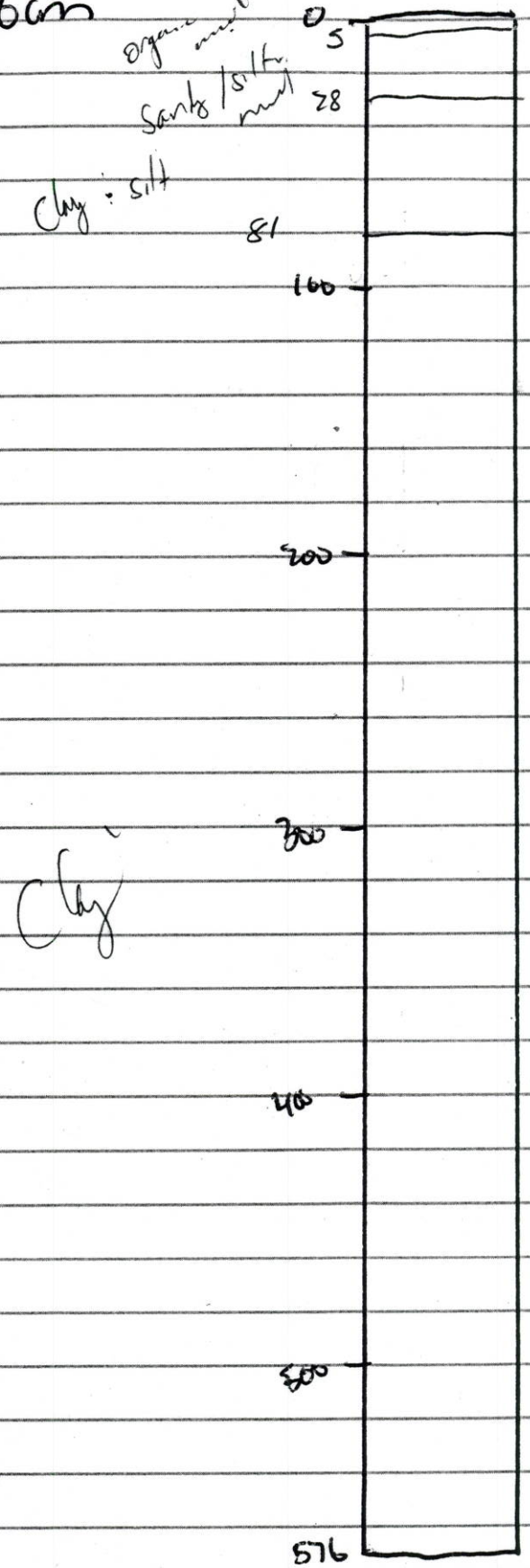
4-209cm - Clay, olive gray, dense, horizontally laminated clay, with occasional sand lenses and thin sand horizons, minimal disseminated shell hash with locally heavy shell hash horizons and small lenses sporadic small wood frags throughout as well

209-226cm - Sandy Clay, olive gray, dense clay with abundant small sand lenses and thin horizons

226-238cm - Sand, light grayish brown, well sorted, fine, slightly muddy sand, with minimal disseminated shell hash

238-590cm - Muddy Sand, brownish olive well sorted, fine muddy sand with abundant disseminated shell hash and locally heavy shell hash clasters, occasional small wood frags throughout, large, intact articulated clam shell @ 375cm, occasional small, clay filled burrows throughout as well

10B1M06-27 576cm



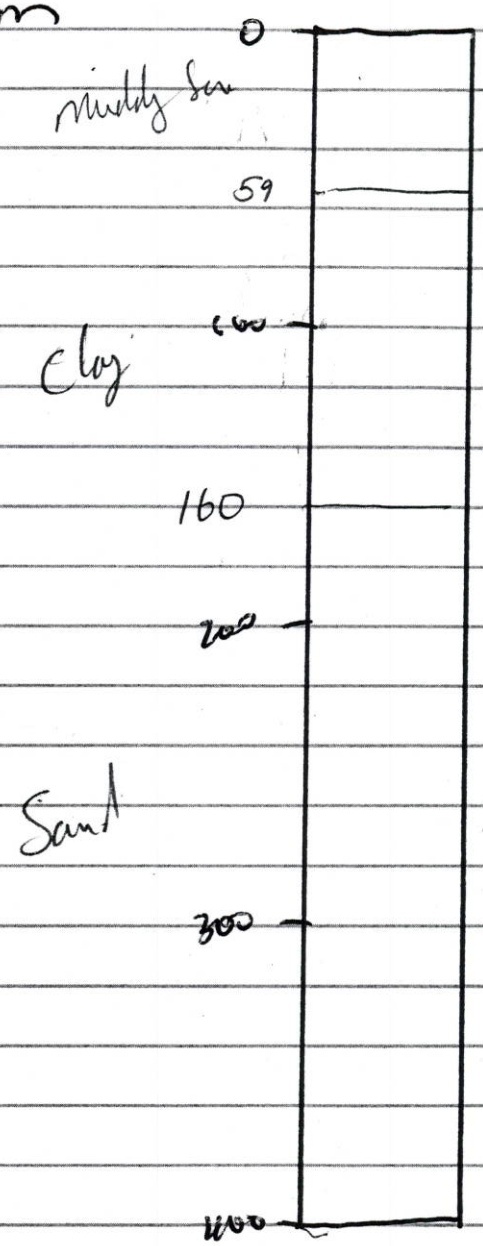
0-5cm - dark gray to dark olive gray soft, saturated organic rich mud

5-28cm - Sandy/Silty Mud, Brownish olive silty mud with abundant disseminated shell hash

28-81 cm clay, brownish olive horizontally laminated clay/mud with frequency thin horizontally oriented silt horizon minimal disseminated shell hash

81-576cm - Clay, olive gray, dark gray horizontally bedded clay, bedding evident by light and dark clay banding minimal disseminated shell hash with locally heavy shell hash clusters from 302-313cm and 406-415cm. Clay has cracking with oxidation from 530-576cm, clay is somewhat indurated at Bot.

10BIM06-29 400cm



0-59cm - Sand, brownish gray, well sorted, medium sand with minimal disseminated shell hash and dark gray mud (organic) filled burrows throughout, soft clay along core wall dragged up from below

59-160cm - Clay, brownish olive, seemingly massive clay, with small silt layers throughout, minimal disseminated shell hash

160-400cm - Sand, light grayish brown grading into light brown slightly muddy sand with mud content decreasing down core, minimal disseminated shell hash, muddy sand burrows cleaner down core with mud content relegated to muddy sand filled burrows, large fragmented clam shell @ 359cm