



ALL-WEATHER  
**OUTDOOR JOURNAL**

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Project Mackenzie Wood



**RiteintheRain.com**

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Tacoma, WA 98424-1017 USA

US Pat No. 6,863,940

7-16

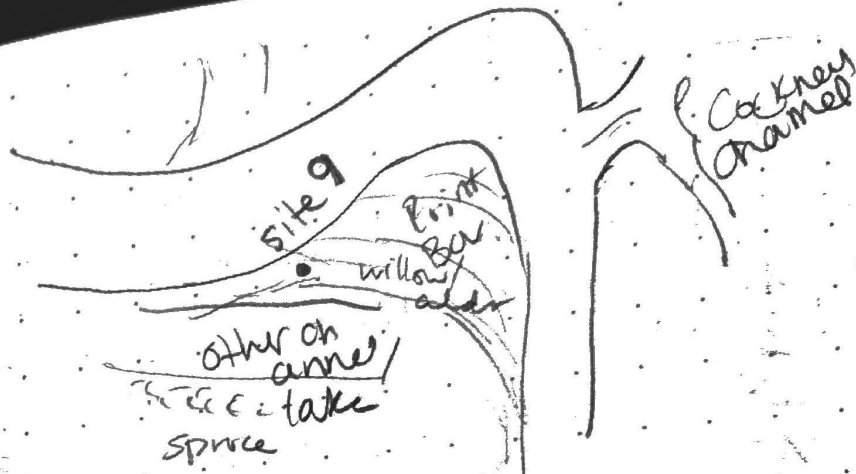
Aug 21st 2019

Mackenzie Delta with  
Ellen & Alicia Sendrowski  
Motor boat driven by  
Greg Elias

Came down to ~~Amos's~~ Amos's  
Edwins ~~trails~~ Calou  
near creek in Mainstem  
Mackenzie

Site 9 E 48.66270 GPS  
N 134.32552

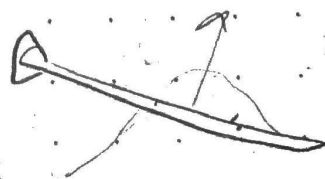
On the outside of a bend  
where ice jams wood  
into large berm like piles.  
Hard to see from the river  
We are sandwiched between  
mainstem &



lots of alders & willows  
no / none spruce

Drone this area

Key piece for Drone  
long mainly horizontal  
weonifer w/ Root wad  
oblique to pile



we were sitting  
on it for lunch

D.  
Porosity  $\sim < 20\%$  143L

Detail - transect

| #              | D <sub>c</sub>  | D <sub>g</sub> | L     | S | D-B-A |              |
|----------------|-----------------|----------------|-------|---|-------|--------------|
| calibratn. Log | 28-R            | 12-S           | 15.9m | C | 1-2-3 | long calibr. |
| 1              | 11-S            | 5-S            | 1.38  | D | 2-3-4 | 456          |
| 2              | 51-S            | 50-S           |       | D | 2-4-4 | N22W         |
| 3              | 11-S            | >91            |       | D | 2-4-4 | S80W         |
| 4              | 23-S            | 22-S           | 4.2m  | C | 2-4-4 | S85E         |
| 5              | 14-S            | 7-S            | 1.35  | C | 1-2-3 |              |
|                | Calibration log |                |       |   |       | S30E         |
| 6              | 18-S            | 16-S           | 3.4   | C | 1-4-4 | N40W         |
| 7              | 11-S            | 12-S           | 2.3   | C | 2-4-4 | N39W         |
| 8              | 33-R            | 22-S           | 2.2   | C | 1-4-3 | S30E         |
| 9              | 19-S            | 19-S           | 1.1m  | ? | 2-4-4 | S80E 7N      |
| 10             | 10-S            | 10-S           | >1.3m | ? | 1-4-4 | S80E 0       |
| 11             | 18-S            | 11-S           | >1.42 | ? | 3-4-4 | S20W 0       |
| 12             | 19-S            | 16-S           | 4.2   | C | 3-4-4 | S80E 8N      |
| 13             | 16-S            | 16-S           | 1.3m  | D | 2-4-4 | S30W 5S      |
| 14             | 17-R            | 16-S           | 1.1m  | C | 2-3-4 | N65W 80N     |
| 15             | 28-S            | 16-S           | 9.6m  | C | 3-2-4 | N74W 0       |

ground w/ tiny small pieces 456

15cm wide by 4m long. some pieces in contact 457

Air 4-9cm 1-2m? 80-90% porosity

Bark & smaller

8-9cm width - ~1m long porosity 80%

longer logs within matrix of bark and smaller sticks

-daisy

Blattish } small packed interstice

-wilos vertical logs

Sight back to start N40E

draw angles by  
trend & plunge of big pieces  
at top of Jam



Drone flight  
near site 9  
but further upstream  
over point bar

68. 66706, 134. 30305

Small pieces  
#10 #17

| Loc  | Dcm | Stick/B |       |
|------|-----|---------|-------|
| 17m  | 4   |         | 5 0.5 |
| 78cm | 12  |         | 4 2   |
| 20   | 2   |         | 3 2   |
| 278  | 8   | B       | 3 2   |
| 24   | 1   |         | 6 0.5 |
| 78   | 10  |         | 56 2  |
| 141  | 3   |         | 16 4  |
| 15   | 2   |         | 13 3  |
| 24   | 2   |         | 14 3  |
| 10   | 1   |         | 9 1   |
| 19   | 3   |         | 4 0.5 |
| 7    | 2   | b       | 4 0.5 |
| 4    | 2   |         | 4 0.5 |
| 8    | 2   |         | 3 0.5 |
| 5    | 1   |         | 9 4   |
| 6    | 3   | b       | 7 1   |
| 8    | 2   |         |       |
| 170  | 5   |         |       |
| 5    | 1   |         |       |
| 3    | 1   |         |       |
| 7    | 1   |         |       |
| 4    | 3   |         |       |
| 5    | 0.5 |         |       |
| 4    | 1   |         |       |
| 5    | 1.5 |         |       |

## Landslides coming in

↳ 68.63712  
134.08019

New phenomenon due  
to permafrost melt  
More wood delivery

Measure forest density in  
gully to approx. in  
woods

---

We stopped again  
at confluence of main  
Mackenzie just 15 km  
ds of meander sites.  
Alicia took pic of  
active bank erosion &  
cond. w/ willows as wood  
~~on bank~~ at winter level.  
There was a wood.

pile perched at top of  
bank of driftwood.  
looks like old channel??  
in fill from old cut-off??

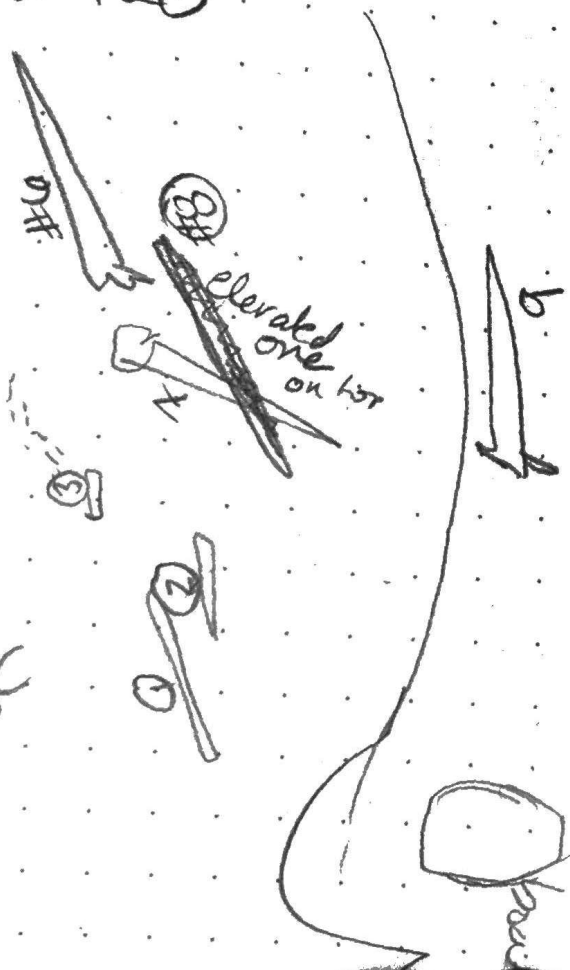
Wood that Alicia was  
interested in was it really  
driftwood but newly  
recruited alders.

Site 13

GPS 08.45658  
134.13559.

Grassy Meander Bend  
on inside piece size  
matrix

flying @ 120'



Sizes  
for logs  
written  
in  
Alicia's  
notebook

Site 12

Scattered wood about. Not  
much wood present  
anymore - transient.

~~Site~~ Across channel  
from Site 12 us of  
wood deposit @ trib junction

Site 14

wood piles  
willows below  
cut bank

lower skirt of wood  
deposited within @  
upper edge of sand -  
event deposit.

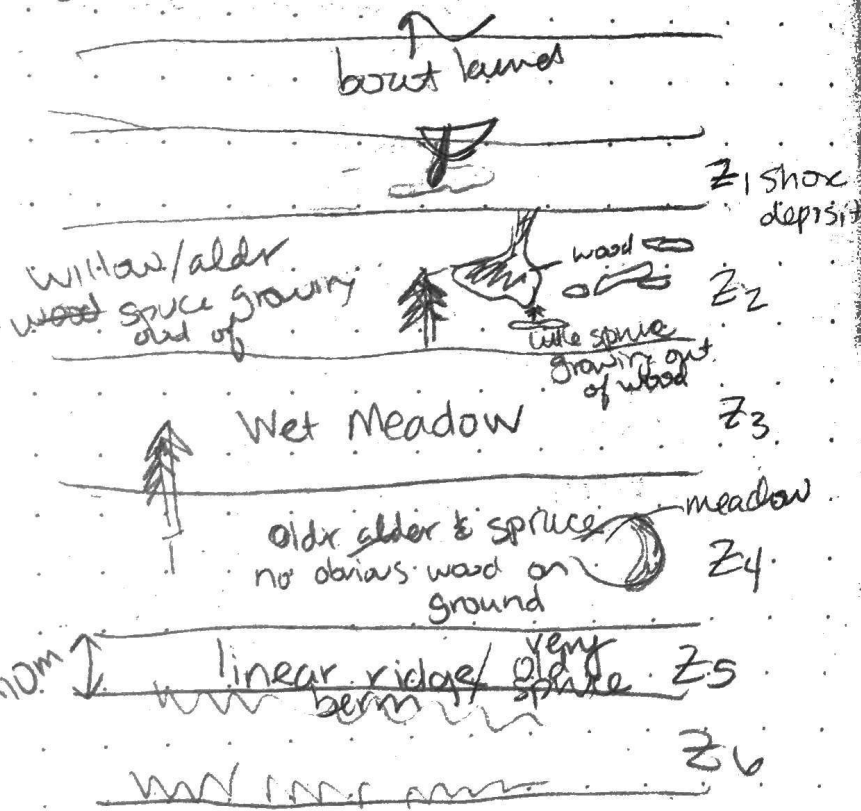
ice push bands within willows?  
back with

Site 14  
Loc. 40386  
134.4458 04854

Berm  
back within  
willows

Aug 25, 2019

Alicia & I canoed across channel from boat launch & are traversing due S20W toward inland lakes 1 to tree line direction.



GPS Log

start 2. canoe (st. Z1) -  
start of Z2 - 68.35555 133.74199  
start of Z3 -  
start of Z4 - 68.35009, 133.74313  
Core 1  
sample 1  
drifted barrel - 68.35500, 133.74348  
in Z4 dated 1928  
sample 2  
Core 2

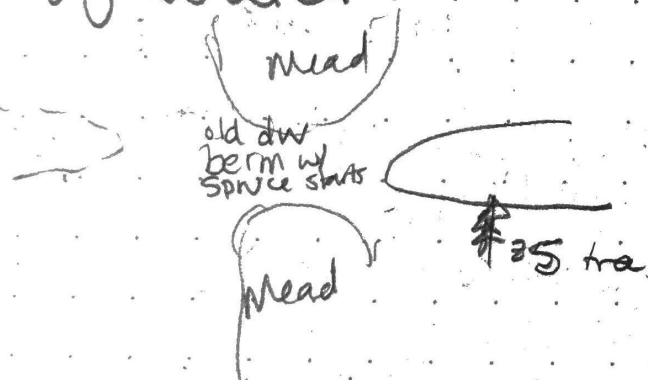
evidence for being on top of crescent duff / ground mounded suspiciously linearly

start Z6  
Core 3 @ 42cm 68.35489  
old spruce middle of Z5 133.74400  
berm  
Core 4 @ breast height split into two tubes  
Core 5 @ zone 4 type GPS w/ Alicia  
Core 6 @ breast height Z5 type GPS w/ Alicia

Rite in the Rain

Within 25 evidence of  
old boat launch so  
lakeside channel used  
to be connected @ time  
rails were available

We just skirted around  
modern cutoff body  
of water



Now a core transect  
as trees are getting  
younger towards old  
berm.

Core 7  
S/30E ↓ 3.80 m taken @ 15 cm

Core 8

↓ 1.5 m taken @ 16 cm

Core 9

↓ 4.0 m away - Core taken @ ground

Core 10

(0.9 m tall, core taken @ ground)

Core 11

→ Core 11 57 cm tall taken @ ground @ transition between vegetated berm new w green med alders:

Core 12

- taken @ ground 24 cm tall

Core 13

29 cm tall @ ground

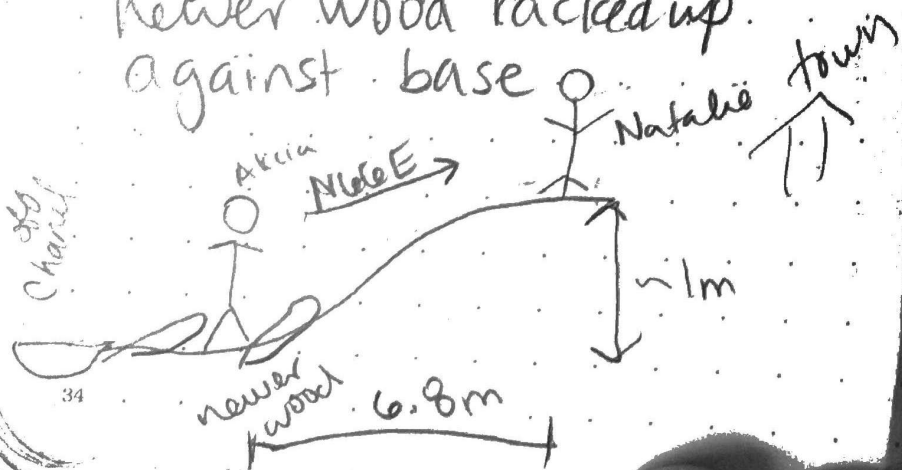


68. 35347 133.74443

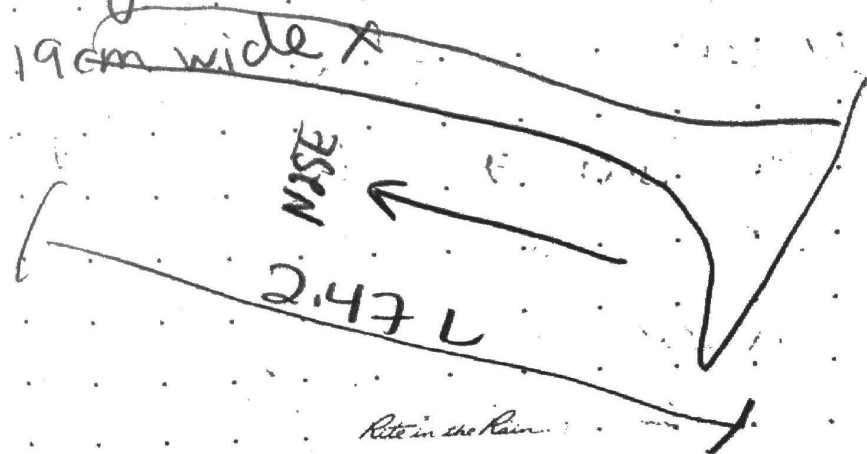
↳ standing on what  
seems to be an  
old driftwood  
pile within connects  
channel lots of  
spruce stumps &  
logs aren't necessarily  
the biggest, but  
lots of them. Red  
plants correspond to  
old piles?!

NWSE  
trend

edge of older berm  
newer wood racked up  
against base



log a base of this point



Site 18 Core 1a  
tree on inland side  
of jam. evidence  
for old driftwood  
underneath area  
30cm off ground

CoB. 35345, 133.74640 <sup>6m</sup>  
Core 1B is second <sup>acc.</sup>

Core 1b - taken @  
breast height  
same tree.

Site 17 core # \_\_\_?

LP #5 small end

G.P.S. CoB. 35467, 133.74078

log end diam ~ 55 but  
decayed

In middle of old jam

S45E trend from big to  
small

G.P.S.

Alicia Sendrowski +1 813 525 7954

~~#50~~ Alicia.sendrowski@colostate.edu

Inuvik

|        |          |           |       |
|--------|----------|-----------|-------|
| Site 1 | pg 5-7   | new sites | pg 16 |
| 2      | pg 8-10  |           | pg 31 |
| 5      | pg 11-13 |           |       |
| 4      | pg 14    |           |       |
| 7      | pg 15    |           |       |
| 8      | pg 17-18 |           |       |
| 6      | pg 19    |           |       |
| 10     | pg 20    |           |       |
| 3      | pg 21    |           |       |
| 11     | pg 22    |           |       |
| 9      | pg 23-25 |           |       |
| 13     | pg 26-28 |           |       |
| 12     | pg 29    |           |       |
| 14     | pg 29-31 |           |       |
| 15     | pg 31    |           |       |
| 17     | pg 38-44 |           |       |
| 18     | pg 41-43 |           |       |
| 16     | pg 16    |           |       |

Site 7

width 30m, length 85m, height 1m photos 4-45

Woz of varying sizes

GPS: 68.34791 133.73680

Vegetation growing in between  
deposit does not go into forest

lots of smaller surface pieces interspersed by  
( $< 10\text{cm}$  in diameter)

large trees,

densely packed w/ finer material  
porosity 10-15%.

Some trees have roots at end  
finer pieces towards forest.

Some pieces have bark - most don't

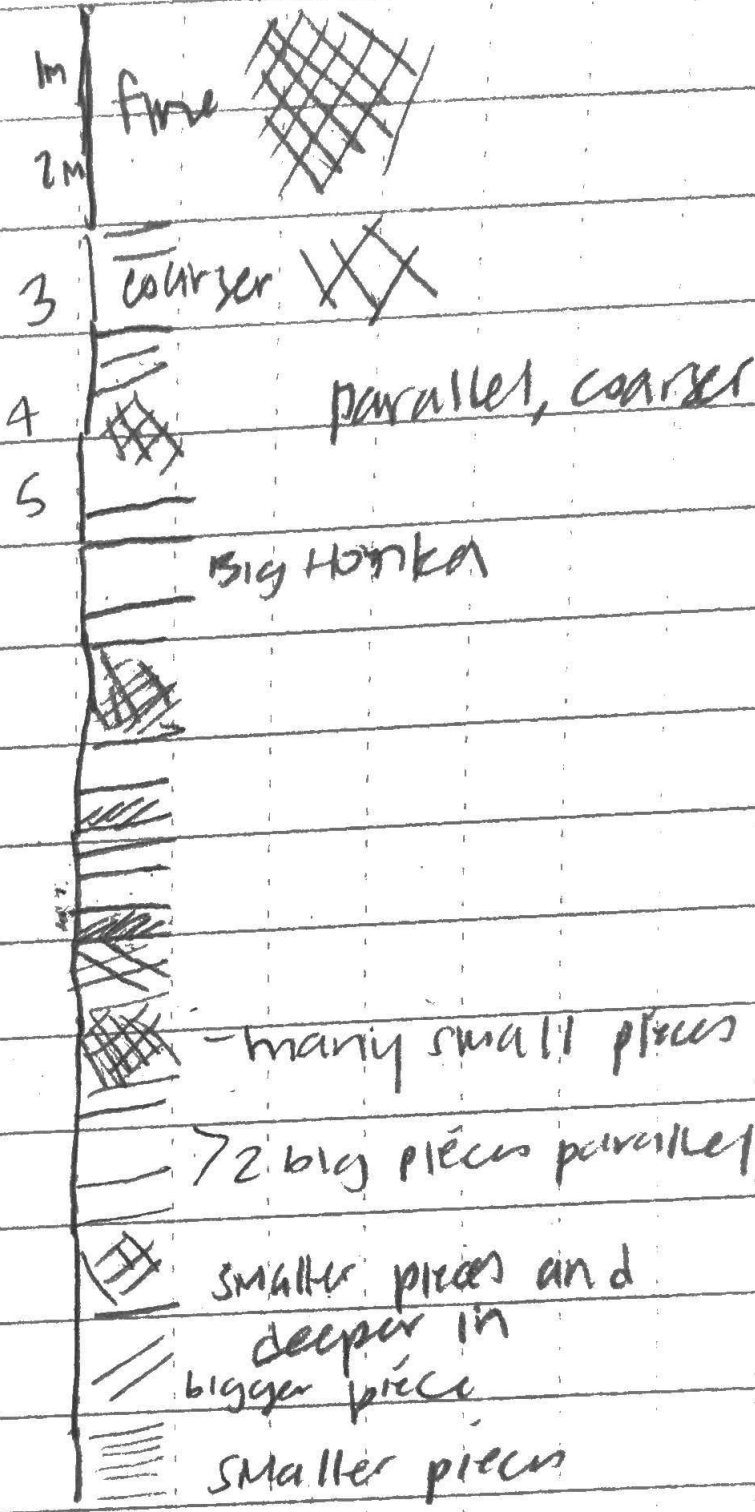
Some cut stumps in deposit

forest

transect

length 30m, cm

|    |    |
|----|----|
| 13 | 20 |
| 10 | 12 |
| 18 | 21 |
| 10 | 17 |
| 13 | 16 |
| 11 | 11 |
| 11 | 33 |
| 36 | 13 |
| 13 | 30 |
| 22 | 24 |
| 12 | 13 |
| 16 |    |
| 24 |    |
| 35 |    |
| 16 |    |
| 13 |    |
| 12 |    |
| 13 |    |



Water

similar deposit - near #1  
 photos 46-57

forest

year 2000

53

52

B

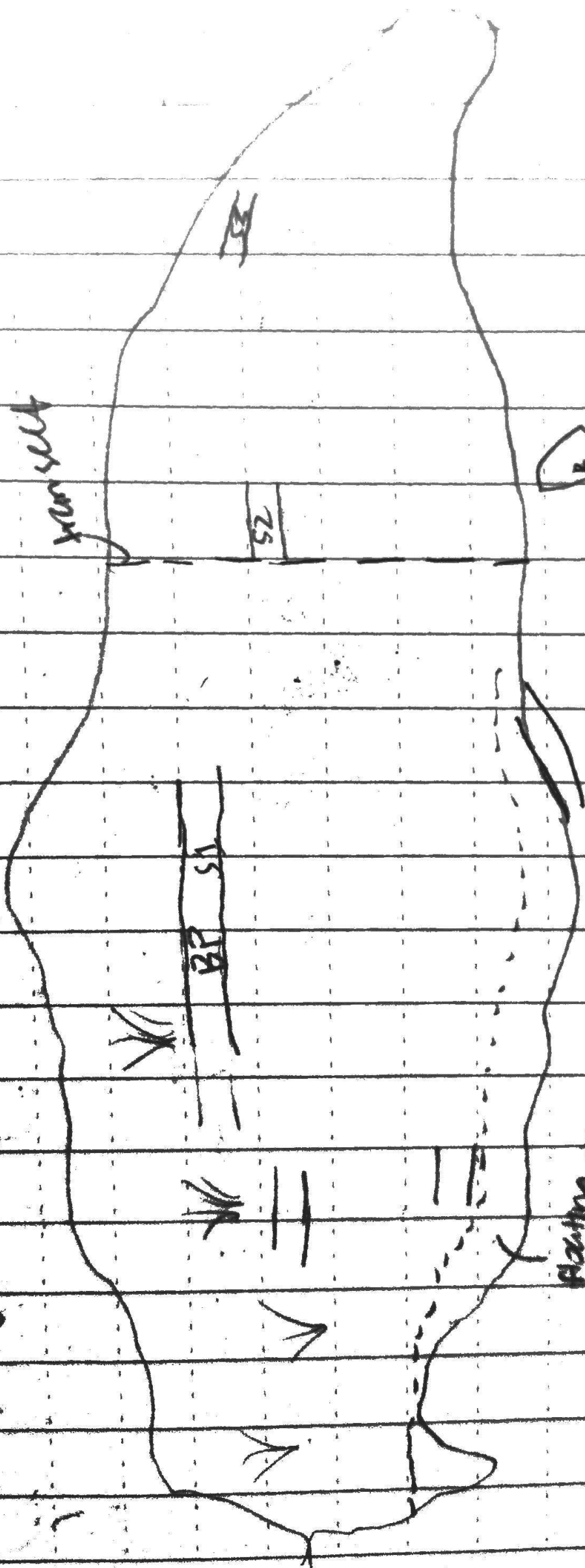
water

BP 51

floating on water surface

side 1

end  
side 2



site 2: long and narrow

photos 58-109

48m wide, 210m

depth 0.5m

gps: 68.35641 133.76163

porosity 0.15

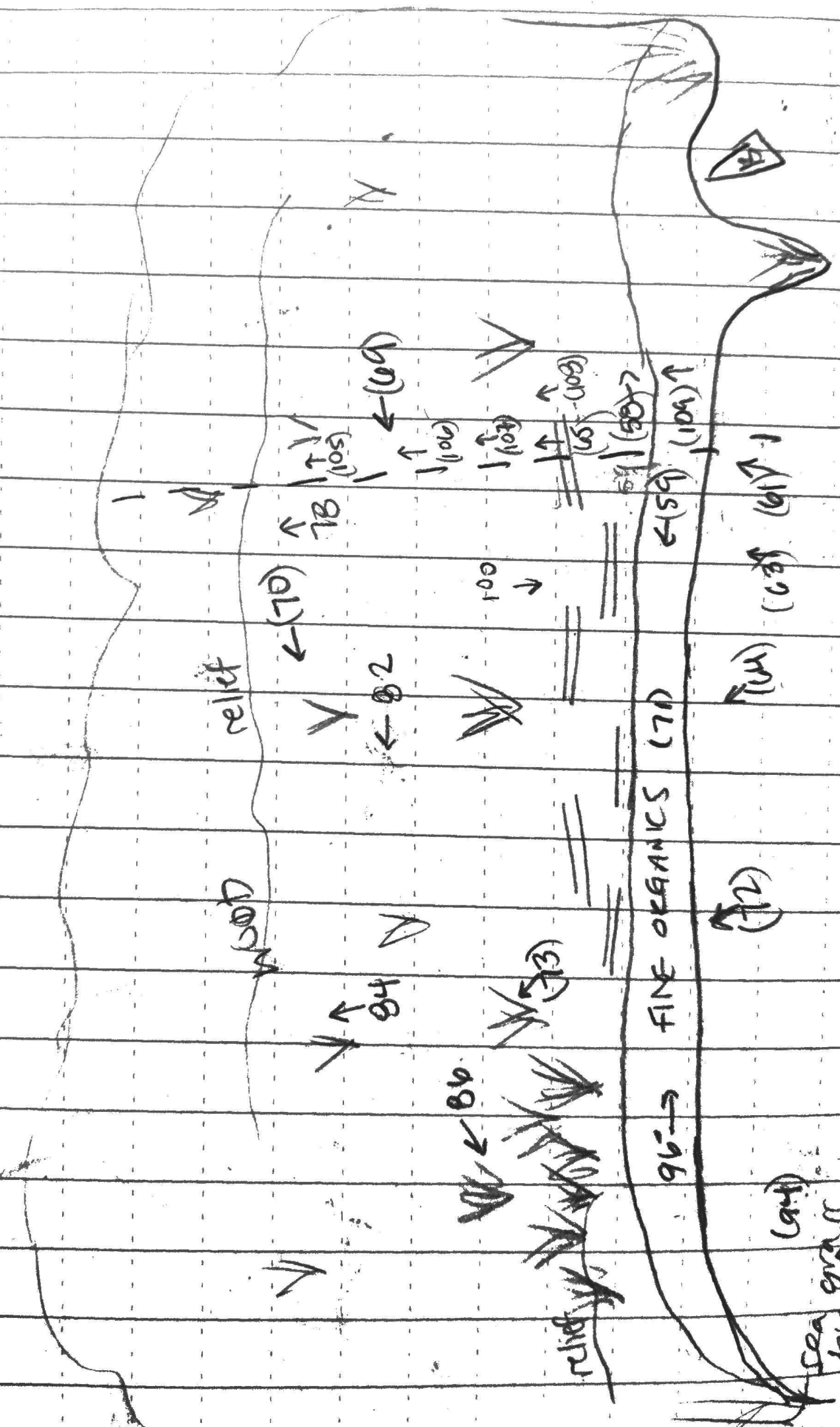
extensive deposit, willow bushes interspersed

thick mat like layer of wood

Deposit extends up reef

A lot of the wood is rotting

some planks



relief

ditch

FINE ORGANICS (72)

96 →

Rite in the Rain.

Sea level is shown (90) (91) further back



shore

transect

20 13

forest

26 13

fine

29 31

[77.10g] relief ↓ going down

59 22

fine + coarse

21 10

mix 101

28 13

16-11

11 18

fine

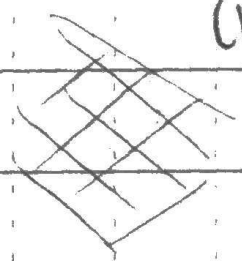
77

15 16



(105)

10 13

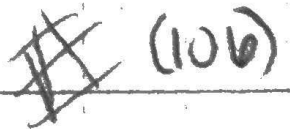


10 19

38 20

37

15 12

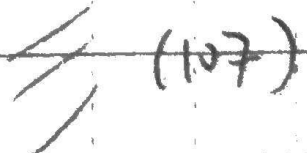


(106)

37 11

~~28~~

12 15



(107)

10 77

59 (108)

13 forest

10

photos looking into forest

11

17

20

18

10

end site 2

3<sup>rd</sup> site visited 5 on map

photo 110-

68.36949, 133.86835

28 m wide + 6 m (2 to one bank, 4 to other)

~~41~~ m length (54 m)

porosity: 30%

height: 1 m<sup>0.5m-</sup>

Some big trees have roots

no visible bark, some have bark

end of transect  
(128/129)  
transect )  
rocks  
back

38 m long transect

|    |    |    |                              |           |
|----|----|----|------------------------------|-----------|
| 22 | 14 | 26 | half way                     | 10        |
| 34 | 43 | 16 |                              | 11        |
| 13 | 19 | 13 |                              | 12        |
| 16 | 16 | 13 |                              | 28        |
| 19 | 40 | 37 |                              | 11        |
| 17 | 12 | 18 |                              | 1 m to me |
| 13 | 11 | 11 |                              | —         |
| 17 | 42 | 17 | log sticking up in (128/129) |           |
| 18 | 16 | 17 |                              |           |
| 25 | 14 | 14 |                              |           |
| 26 | 14 | 11 |                              |           |
| 27 | 21 | 15 |                              |           |

Ret. 46 Rain

11

from end of transect (131)

fine (131)

fine (132)

~~///~~ (133/134)

~~///~~ (135/136)

~~|||~~ bigger pieces (137/138)

~~|||~~ At piece that sticks up (139/140)

~~|||~~ big pieces (141/142)

~~|||~~ wide flat piece (143/144)

~~///~~ (145/146) mid-way point

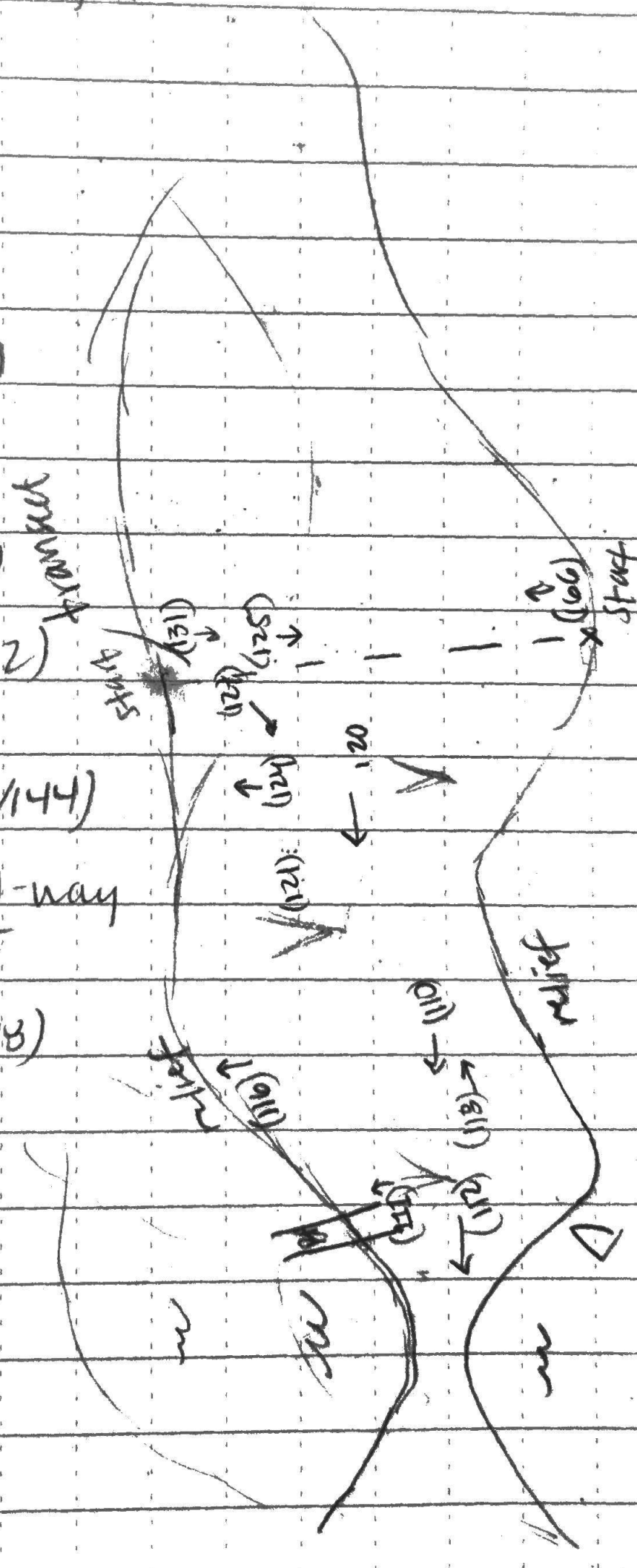
~~|||~~ flat piece (147/148)

~~///~~ (149/150/151) big pieces

~~///~~ root (152/153)

~~|||~~ (155/154)

~~///~~ (157/158)



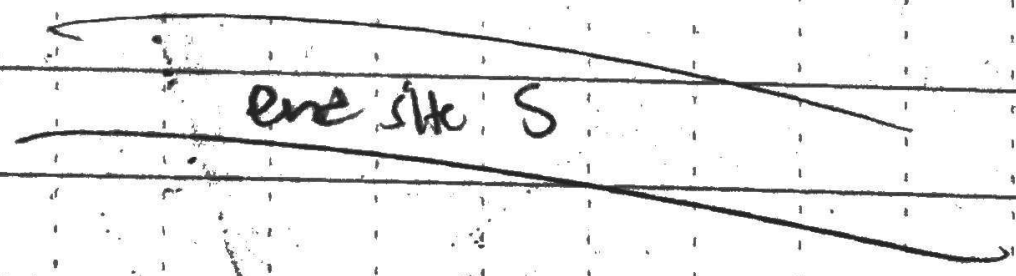
(151/160)  
more sparse  
sediment visible

(161/162)  
sparse, small pieces

163/164 cspace

165 start of transect.

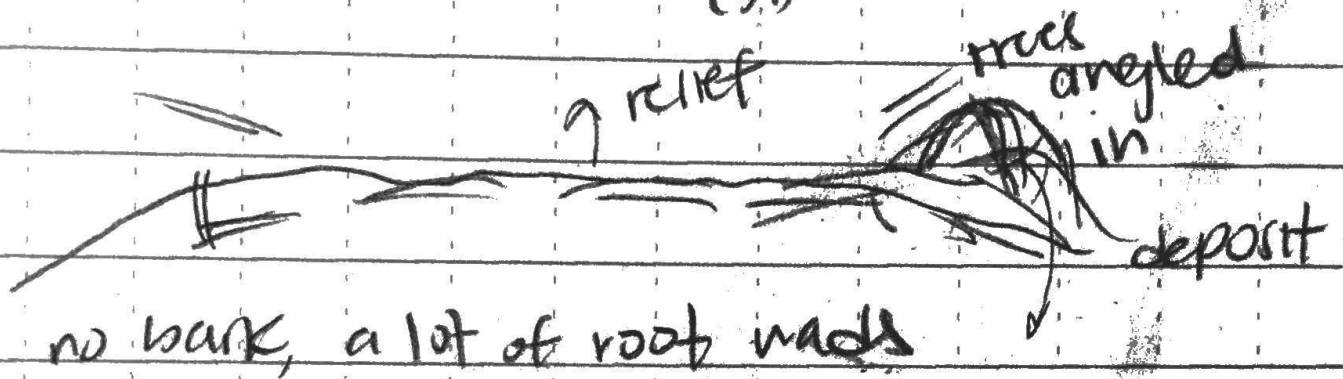
166 looking back



site 4

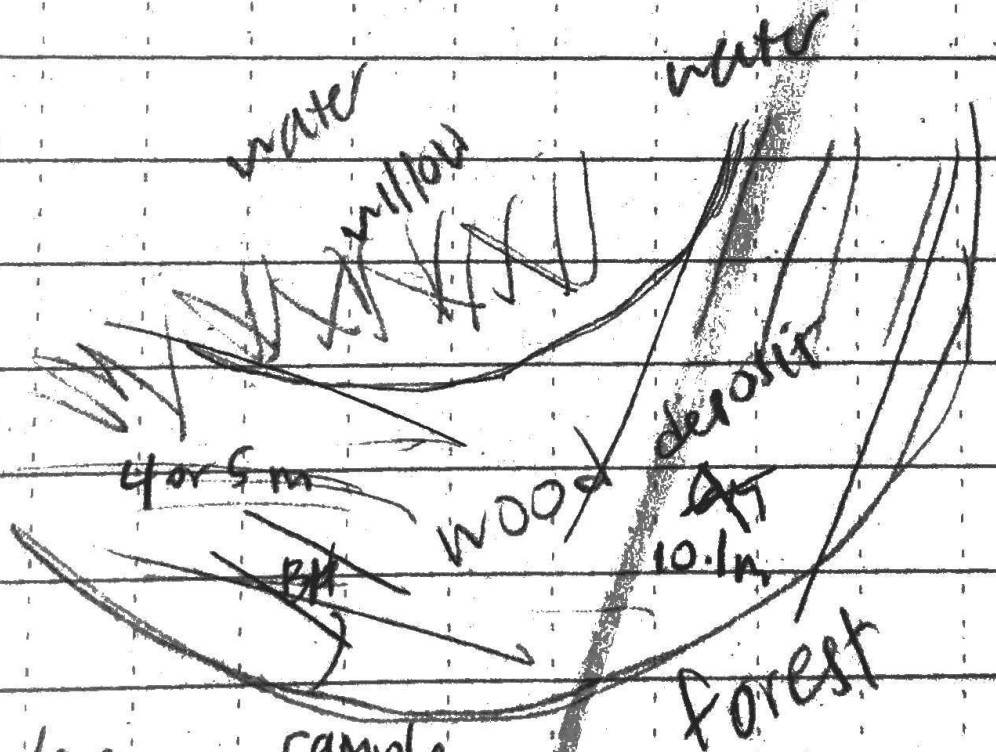
left side gps: 68.38857, 133.87050

right side gps: 68.38789, 133.87372  
(39)



porosity: 40%

height: 1m



gps sample:

photos in phone

10.1 m width  
8.6 m length

site #7

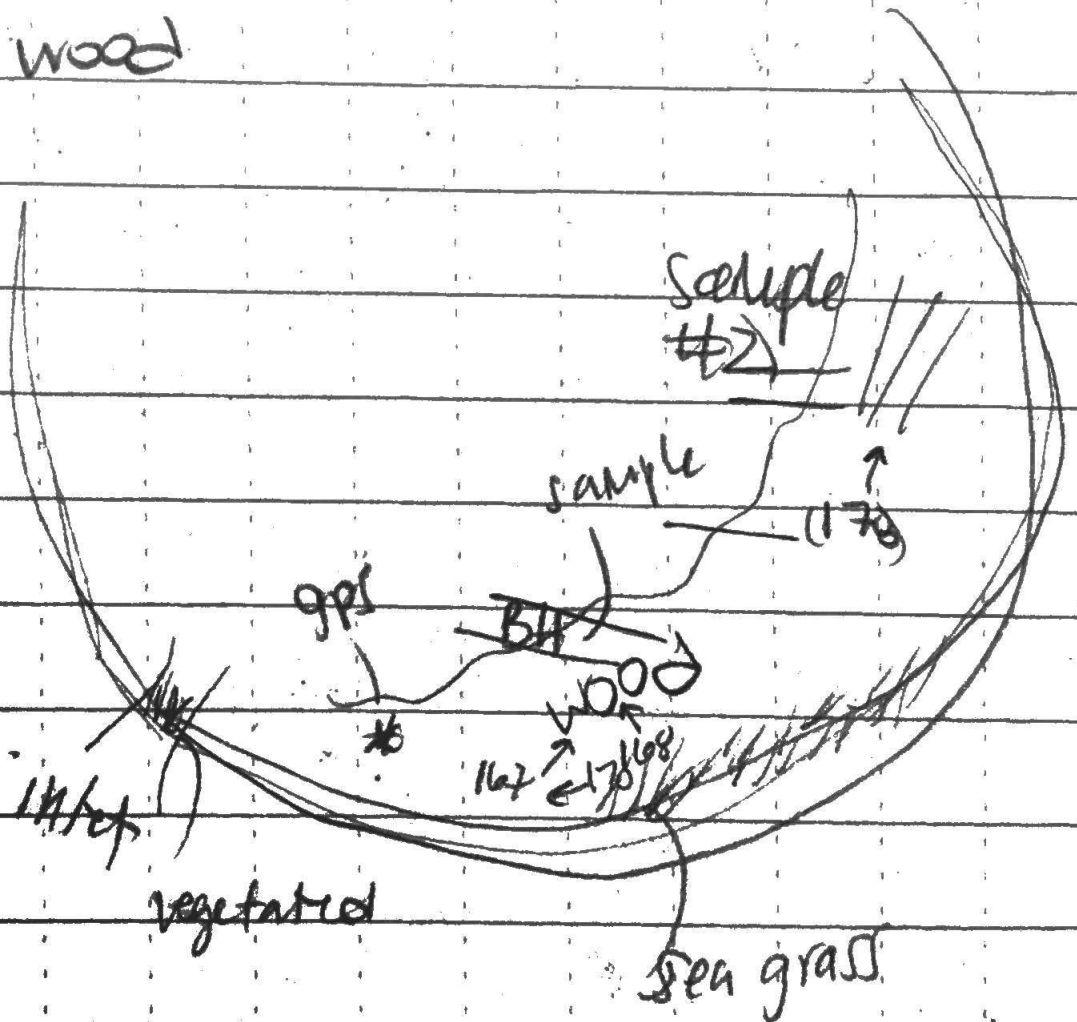
photo: 167-178

BH = Poly  
Honka

width = 18m length = 116m

gps: 68.40748, 132.94051

Floating wood



sample 2 dia = 25cm  
length = 3m

end  
site 7

- new site #1 (seen heading back to Inuvik) :  
taking gps point: ~~68.36195, 133.85903~~  
↳ 68.36189, 133.85972

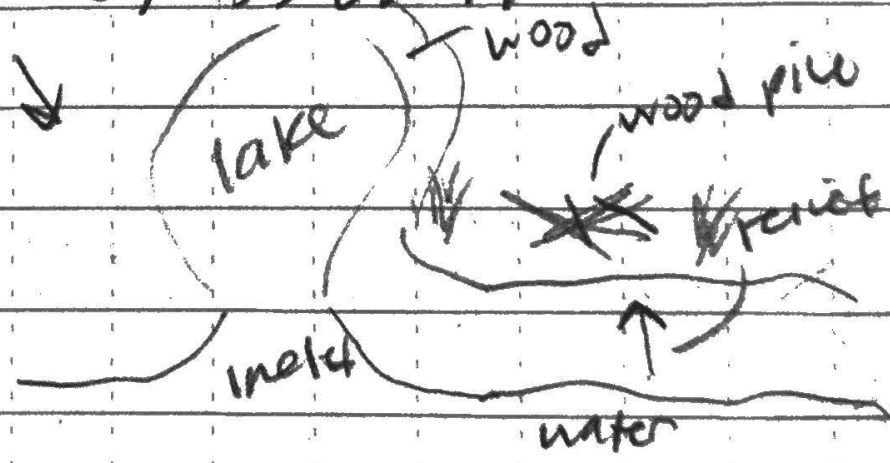
- in inlet/embayment

- new site #2: 68.36221, 133.85150

- Along bank wood

- site along mackenzie, channel along Inuvik

gps: 68.49060, 133.85197

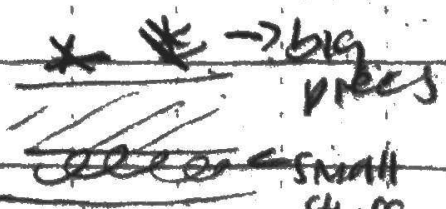


↓ SITE 16

gps point at point bar on Mack R  
near 9 : 68.66706, 134.30305

drone flight over piecewise matrix

point bar



gps mackenzie R. large wood on top  
68.48052, 134.07350

small wood at bank

161

site # 8

W  
29m x

photo 179

8/20/19

isolated raft site

GPS: 48.40444, 133.92564

3 different zones

1 forested - old muddy pieces closer to forest photo 195 left 196 right side raft

Floating water not raft

2. raft 1 - deposit: large pieces angled all over each other, some wood pieces

pieces floating, no small pieces  
decaying wood under water

53cm diameter

46cm 39

49cm 12

48cm 29

32cm

52cm

29cm

72cm

29cm

31cm

16cm

18cm

23cm

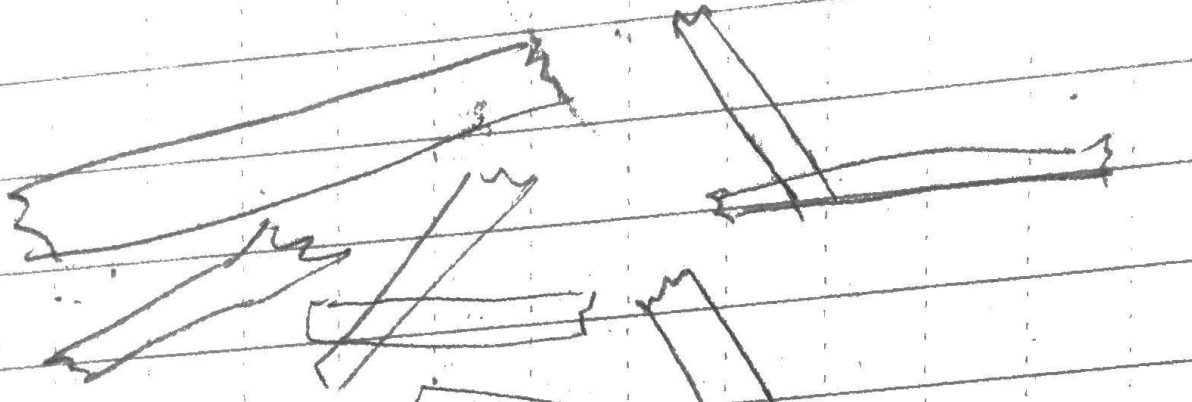
old beaver berms,  
fresh beaver chew

3. raft 2: raft seen

in imagery

sample appears to be cotton wool



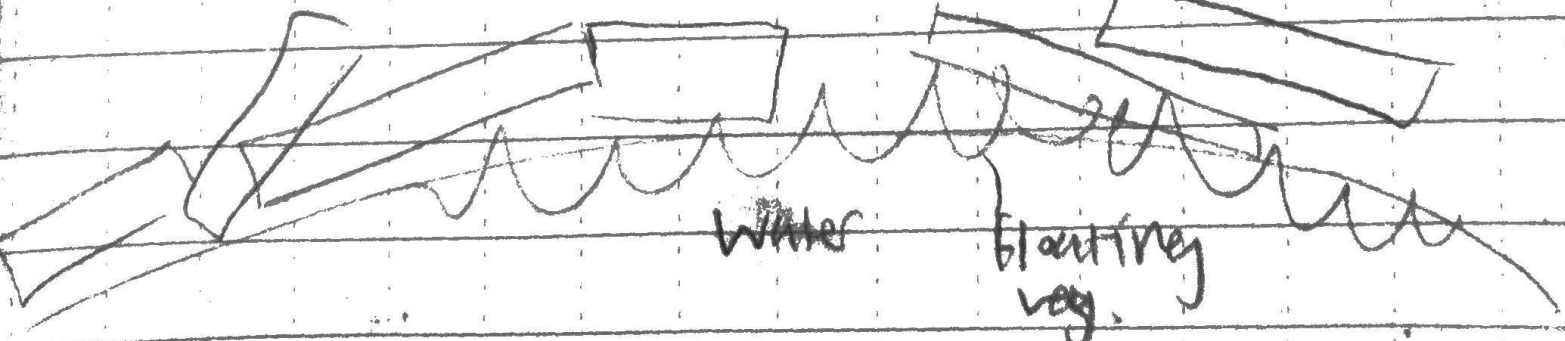
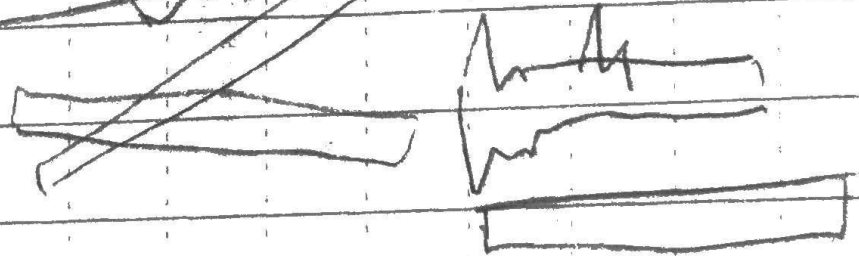


willow



cut stump

grass



water

blattney veg.

site #6 gps 1 48.42165, 133.91682 photo: 202

to find extent

top (toward forest) → 68.42155, 133.91638

right (facing lake) → 68.42173, 133.91565

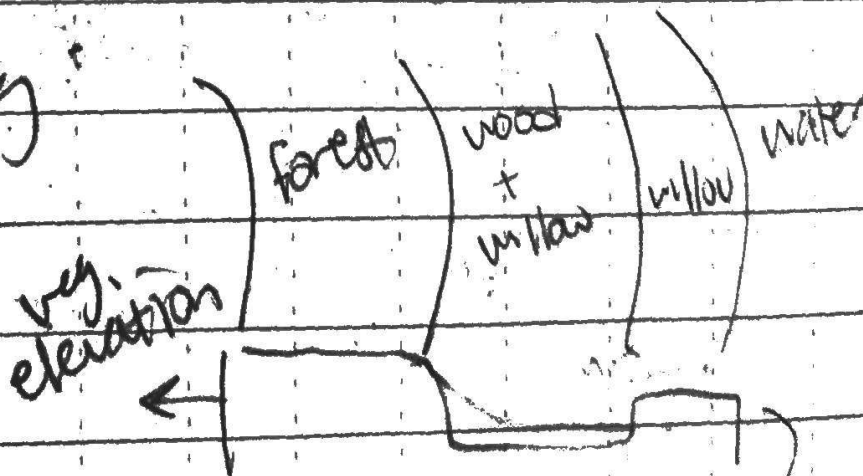
bottom (away from forest) → 68.42175, 133.91615

left side (close to bank) → 68.42169, 133.91708

a lot of wood here, interspersed by willows  
most of the wood is small (<10cm) pieces

no predominant orientation

vegetation banding



wood mat

not very thick → 1-2m diameter

also seeing cottonwood at this site - surprising

land surface

potential abandoned channel

site #10 GPS: 68.40067, 133.88908

↳ 3 parallel lines = big ass barge/bridge

photo 210 PICS 216

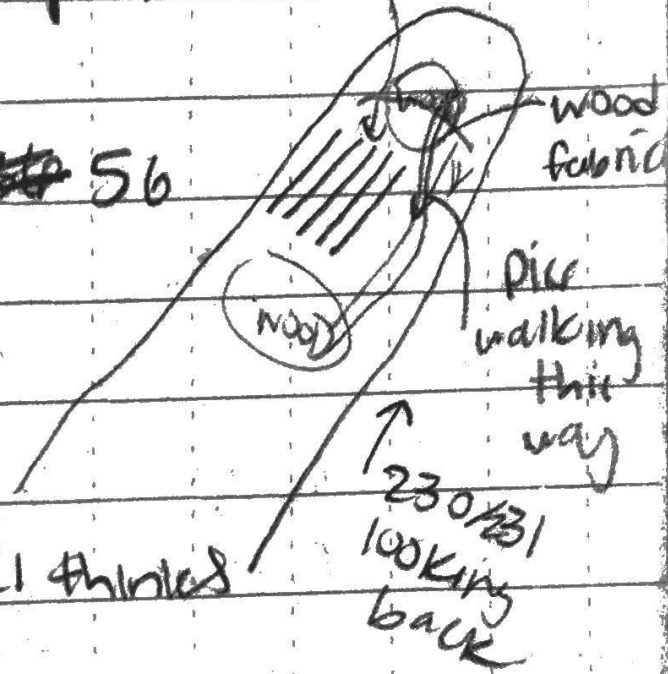
in inlet, bridge on on

w: 24.2m x l: 45m ~~34~~ 56

deposit in back near

(lake (211-214, 215))

extent: 10m x 25m LI thinned



deposit at outlet (start of net) (216)

most of the wood oriented parallel to inlet/  
flow direction

end of deposit 242/243

244-walking back

log change orientation approaching water

| 246/247

orientation changing to // 251

Site #3 68.39485, 133.87072

N= 52m

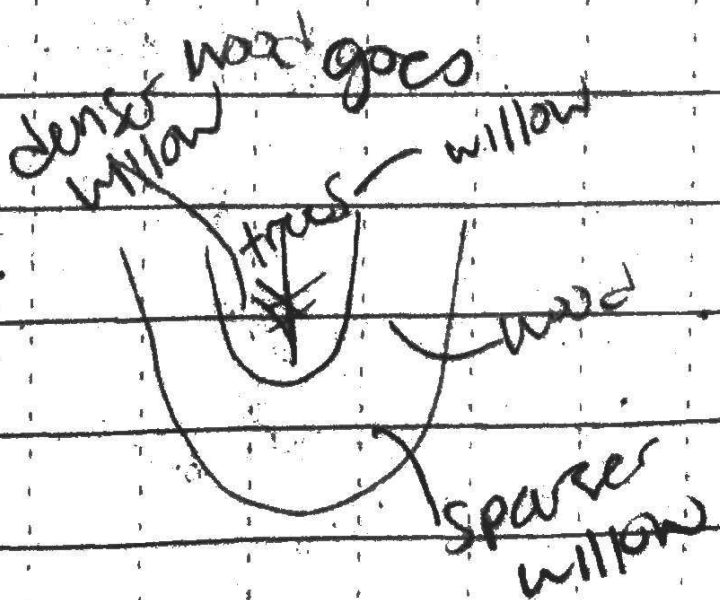
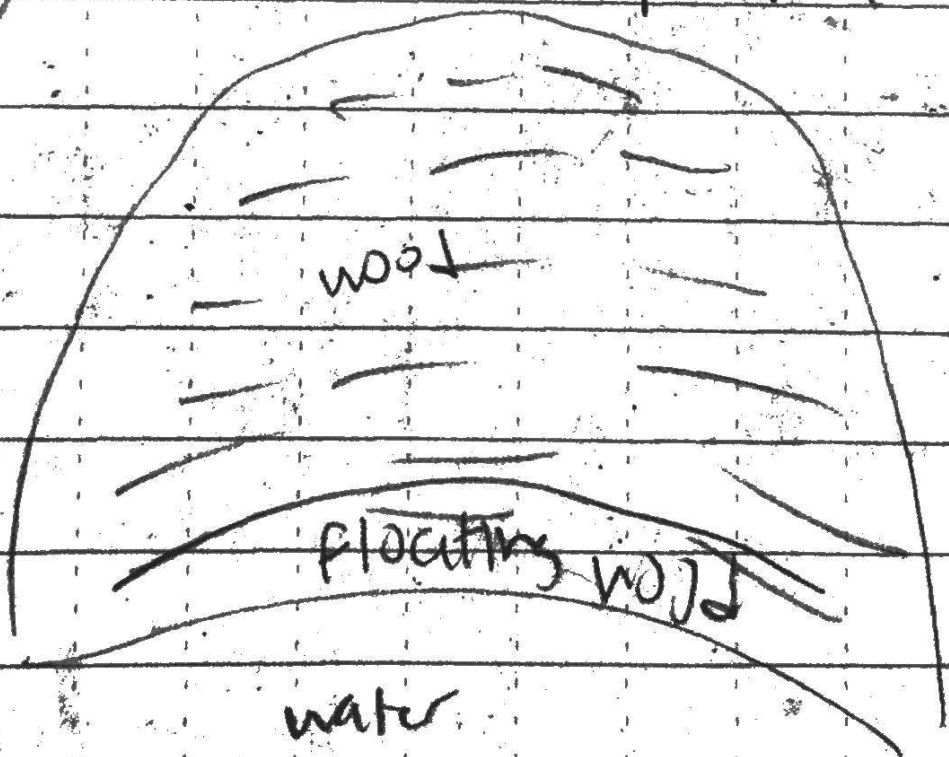
Piles 273

transect across 10m swath (293)

height 210g  
diameter

see cut stumps, whole logs

piles get <sup>you</sup> finer as move up deposit from water



site 11 around the Inlet shore photo 328

gps: 68.43332, 133.96072

- some trees have bark
- deposit goes back into forest

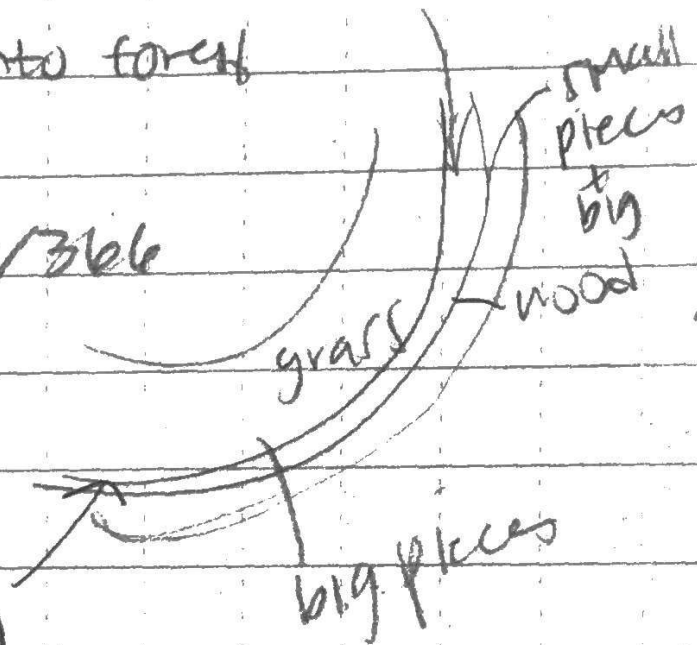
interspersed w/ willows

tree w/ bark 367/366

height 1-1.5m

wood orientation off

this side



site 11b floating mat ~~at~~ near inlet

gps: 68.43173, 133.97121

08/21/19

site 9: gps: 48.66270, 134.32552

photo 407

high relief wood deposit off of mainstem  
MADISON RIVER

ribbons of wood going <sup>parallel to</sup> ~~parallel~~ <sup>angle</sup> <sup>of angle</sup> to channel  
channel

1 diameter

wood

long big  
pieces

erosion  
20-30%

highest  
relief

stacked

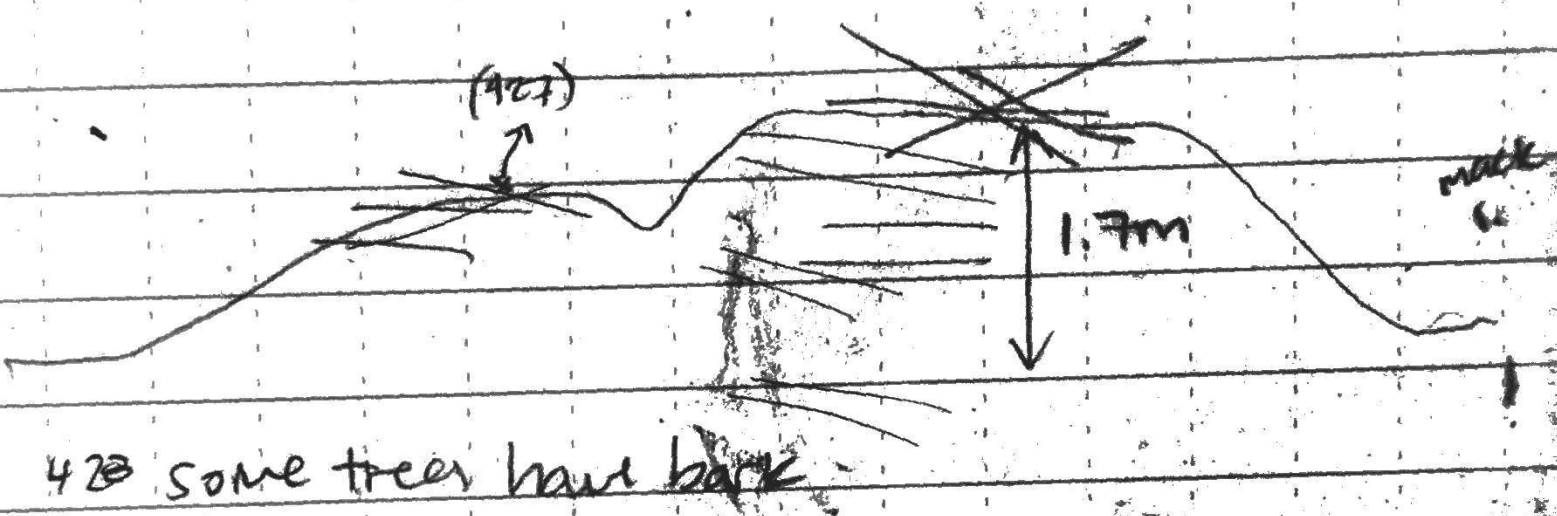
(407 →)  
taken  
on top

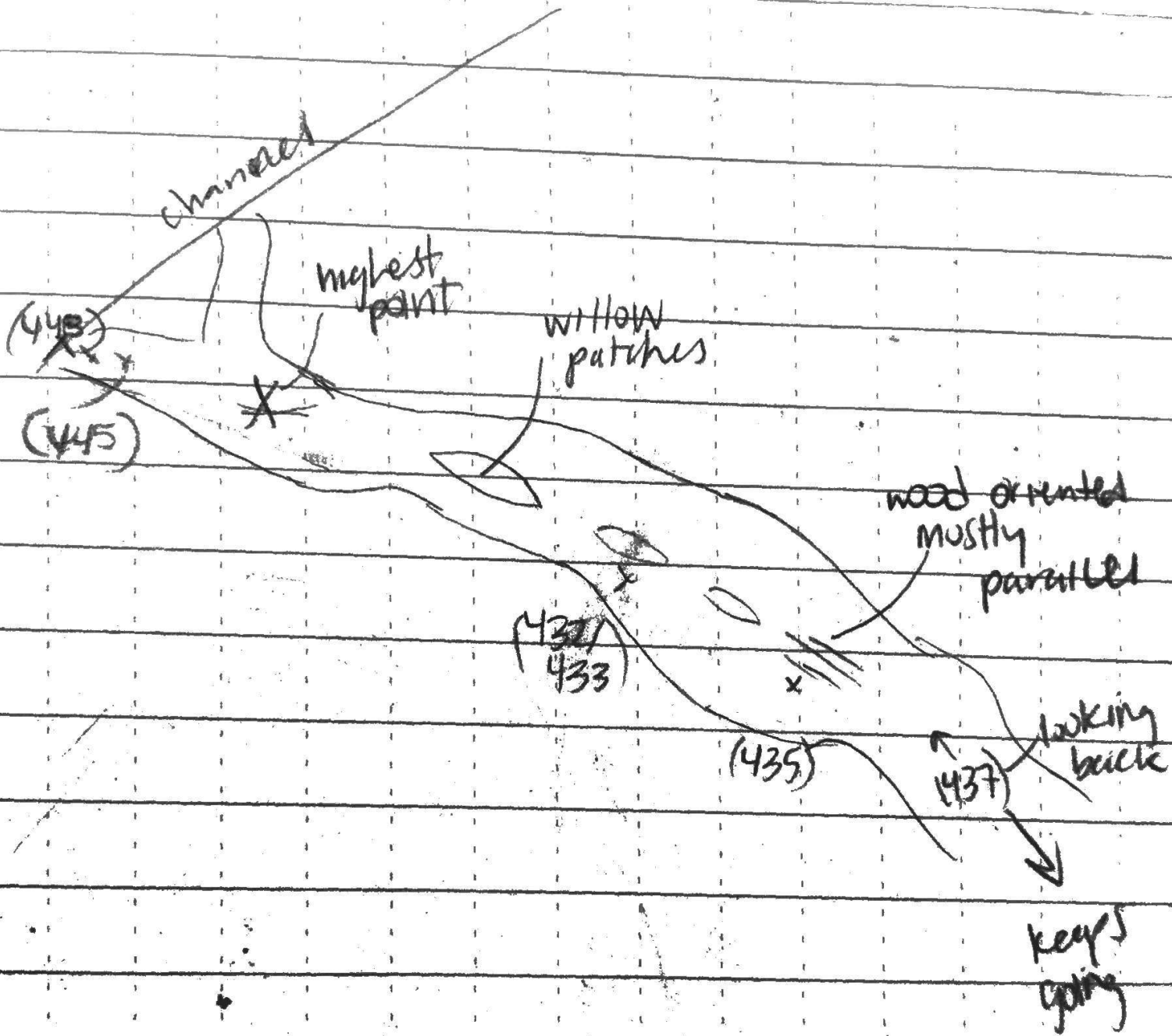
relief  
decreasing

10  
diameter

Elevation along profile for tallest section

photos 421-426





end  
step 9



site 13

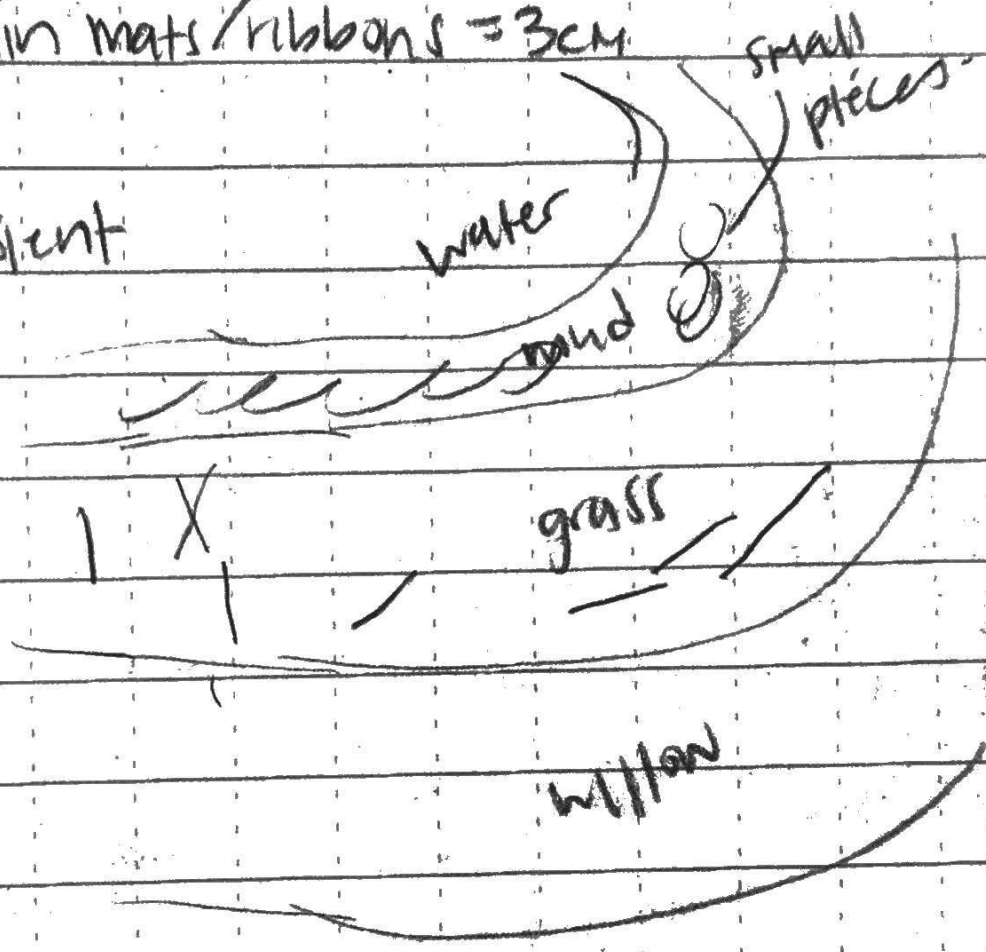
gps: 48.45658, 134.13559

photo  
481

loose pieces on grass point bar

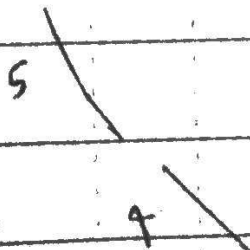
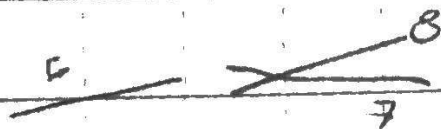
thickness of thin mats/ribbons = 3cm

likely transient



~~photos~~ took drone video

|    | diam              | length(cm) | direction<br>orientation | azimuth |
|----|-------------------|------------|--------------------------|---------|
| 1  | 15                | 3.9        | N52E                     | Flat    |
| 2  | <del>20</del> 6cm | 2.8        | N52E                     | F       |
| 3  | 15                | 3.2        | N52E                     | F       |
| 4  | 20                | 1m         | N7W                      | F       |
| 5  | 7                 | 3.8        | N30E                     | F       |
| 6  | 18                | 12.0       | N85E                     | F       |
| 7  | 30                | 10.6       | N55W                     | F       |
| 8  | 62                | 8.5        | S10E                     | 15°     |
| 9  | 20                | 5.9        | S10E                     | F       |
| 10 | 43                | 11.8       | S70W                     | F       |
| 11 | 13                | 3.2        | N35W                     | F       |
| 12 | 19                | 3.3        | N75E                     | F       |
| 13 | 23                | 13.8       | S38E                     | F       |



| transect length | dia (cm) | length (m) | taking transects into willows  |
|-----------------|----------|------------|--------------------------------|
| 1. 12m          | 16       | 0.75 ↓     | spaced every 6cm               |
|                 | 20       | 6          |                                |
|                 | 14       | 1.3        |                                |
| 2. no wood      |          |            | transect starts at willow line |
| 3. 16.6m        | 28       | 3.3 ↓      | moving toward shore            |
|                 | 16       | 1.1        |                                |
|                 | 12       | 1.8        |                                |
|                 | 17       | 5          |                                |
| 4. 10m          | 10       | 1.4        |                                |
|                 | 12       | 1.05       |                                |
|                 | 18       | 3.0        |                                |

site 12

gps: 68.39839, 134.06583

no real wood here compared to satellite  
frankent wood likely

looks similar to 13 but larger grassy  
flat and then willows

some wood pieces but less than site 13

---

site 14:

gps: 68.40337, 134.04854

old berm - big pieces

took 2 samples  
for radio carbon

thought: get  
length of  
barge/bridge  
at field 29

gps along berm

- 1 68.40376, 134.04851
- 2 68.40368, 134.04849
- 3 68.40359, 134.04834
- 4 68.40350, 134.04837
- 5 68.40348, 134.04842 - "back of deposit"  
Core 1  
(thick)

taking tree core at this site

↳ cutting tree to count rings

site covered by alder trees

most are rotting logs that have been snapped, moss/lichen growing on them  
some stumps and one cut piece

taking tree in "back" of deposit area

front gps: 68.40385, 134.04912  
core 2 (thin)

core 3 = 68.40405, 134.04933

(even smaller)

towards front/channel

sample for radio carbon 68.40407  
134.04942

cut piece, transient?

deposit at channel front is on  
sand bar (photo in phone)

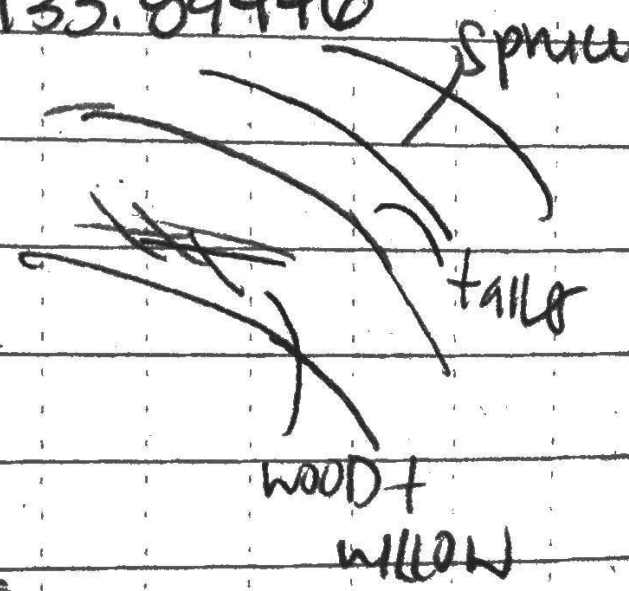


~~68.39604, 133.89~~

~~68.395~~ 68.39549, 133.89446

Deposit

close to site 3



radio carbon sample from cut-bank  
on channel close to inuvik

68.29418, 133.80687

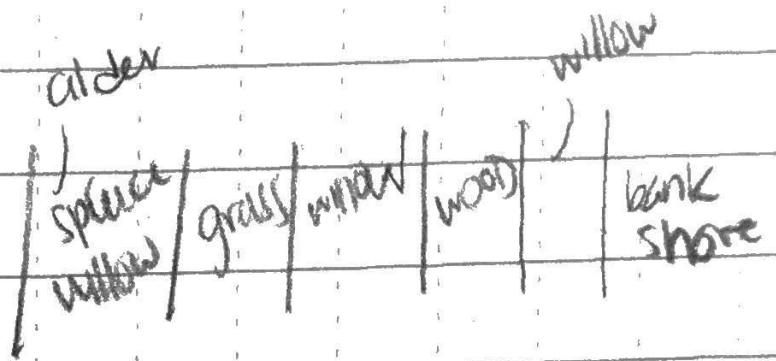
site 15

photo 509-519

8/25/19

Site 17 canoe across channel from

Inuvik



going to

take cores for some spruce for ageing

wood deposit looks old.

many spruce growing out of old wood

core 1 (597-599) gps: 68.35516, 133.74316

taken 23cm above ground

"zone 4"

LP1: buried log, alder growing out

gps: 68.35500, 133.74348

LP2: old driftwood sunk into ground

rusted barrel at site from 1928 (600, 601)

core 2 taken from tall spruce 21cm above ground

"zone 4"

need get tel. WD 40 38

core 3 68.35489, 133.74400 (602)

"zone 5" - berm before <sup>small</sup> lake

↳ gps at lake edge:

68.35486, 133.74408

taken lower down tree

↓ on other side of

at 42cm from

berm: 68.35490,

ground

133.74402

core 4, taken at breast height from same tree as core 3

split into 2 cores - 4a, 4b

core 5 spruce bunched on old large log

gps: 68.35464, 133.74355

taken at 28cm

core 6 dbh, spruce in zone 5

gps: 68.35423, 133.74266

split into 2, 6a, 6b



going along transect

Site 17 core 7 - cutting down young spruce

LP3 ↗ gpc 68.35400, 133.74236

Taken 15cm above ground

core 8 (6/6/6/17) taken from core 7

↳ 16cm from ground toward core 8

(3.86 m from core 7)

core 9 right next to core 8

taken 2 cm from ground (at ground)

core 10 edge of willows/alders

taken at ground, 0.9m tall

core 11, next to 10 68.35393

133.74231

gpc: middle of grassy berm

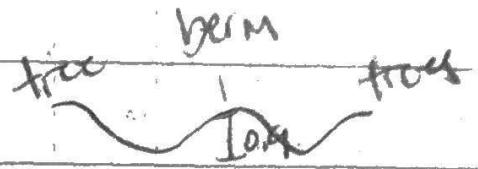
68.35390, 133.74219

core 12, taken at ground, 24cm tall

core 13, next to 12 very small

Core 14 very small 68.35383, 133.74284

LP4 taken near core 14



old LARGE seeming pile/raft plug  
0.9m height on berm



site 18 driftwood pile at end of  
transect for site 17

68.35324, 133.74631

photo.

628

low porosity height  $\approx$  50cm

LP1 40cm x 60m

(reference log for drone) cut pieces at end

gps at end on lake shore

68.35334, 133.74666

Core 1 taken from large spruce forested  
side of site gps in narratives book

Transsect shore

14cm

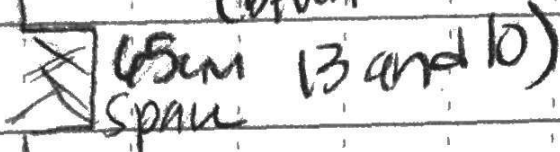
photo 639

11

13

(btwn

10

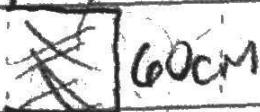


10

21

wood < 10cm  
in spales

26



25



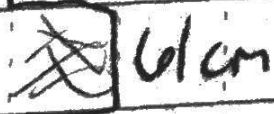
16



51

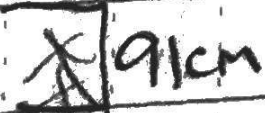
13

26



24

10



34



(End)

(big root was  
tree line

site 18 dbh core 2

tree ~~was~~<sup>is</sup> injured, ~~or~~ perhaps by ice?

"lonesome george tree" photo 646

gps: 68.35325, 133.74580

---

log in meadow growing alder

gps: 68.35437

133.74110 (2m)

photos in camera showing veg  
transition, grass on either side

---

locum big honken log in forest

Big ass tree gps: 68.35455

133.74106

growth on  
side that has  
rings

photo 654

gps on one end: 68.35456, 133.74113

site 17 core 15a 30cm from ground

close to LP5

(15a or b) or (15 & 16)

may rename (08/28/11)

core 15b diameter at breast height core  
put in same tube  
to get growth curve

site 17

LP5 66cm x gps length

walking into site 17 from canoe

68.35558, 133.74194

photo  
669 →

start of zone 2: 68.35555,

133.74199

old

deposit a little inland 68.35542, 133.74226

L75 jam ~~glass~~ <sup>Fabric</sup>

canoe 91.5cm width at center

5m width, 81.5cm on yoke

gps 68.35559, 133.74165

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19 Aug 19

Mackenzie site 1

- LP1: log 21.8 m long, 4.5 cm diam
- LP2: 5.6 m x 17 cm
- LP3: 7.2 m x 21 cm (below surface)

Site 2 - L 210m

- LP1: 11 m x 61 cm
- LP2: 6 m x 14 cm
- LP3: 6.1 m x 33 cm

Site 3

- LP1: 14 m x 30 cm
- LP2: 7.5 m x 35 cm
- LP3: 7.8 m x 32 cm

Site 4

- LP1: 7 m x 39 cm
- 68.38709, 133 47396

Site 7

- LP1: 13 m x 50 cm
- LP2: Alicia got

|                       |        |                  |
|-----------------------|--------|------------------|
| Flume                 | 6/9/95 | 1.975            |
| Upstream right corner |        | <del>1.975</del> |
| Upstream left corner  |        | 1.960m           |
| Upper drop right      |        | 2.005            |
| Upper drop left       |        | 2.012            |
| Lower drop right      |        | 2.030            |
| Lower drop left       |        | 2.025            |
| Downstream rt. corner |        | 2.051            |
| Downstream left "     |        | 2.050            |

20 Aug 19

site 8

LP1: 10m x 52 cm

LP2: 9m x 32 cm

66, 40, 34, 3

133, 9, 24, 21

site 6

LP1: 9m x 26 cm - middle of dep

LP2: 1.4m x 23 cm - lower dep

LP3: 7m x 20 cm upper dep

29 cm 36 20 24

18 33 16 34

24 25 16 12

26 19 14 17

23 14 21 20

site 10

LP1: 5.2m x 26 cm - mid deposit

LP2: 4.5m x 36 cm - upper end dep

LP3: 8m x 36 cm - down to " "

26 32 31 29 42

36 39 36 34 46

36 42 46 31 29

site 5

LP1: 4.4 x 36 cm - mid dep

LP2: 6.5 x 40 cm - upper "

LP3: 9m x 24 cm - down to "

length: 56 + 17m → LPS

diams - 10 m transect

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| 36 | 16 | 15 | 25 | 31 | 16 | 16 |
| 20 | 13 | 11 | 19 | 17 | 17 | 40 |
| 10 | 16 | 11 | 14 | 27 | 16 | 15 |
| 13 | 19 | 14 | 27 | 24 | 13 |    |

site 11

LP1: 16 m x 23 cm, near water's edge

LP2: 8 m x 47 cm, near back of dep

dep widths:

41m

10

5

8

12

7

9

log diams: (10 m L)

24 19 24

19 31 29

12 16 18

36 12 26

32 37 31

29 16

47 19

26 21

24 42

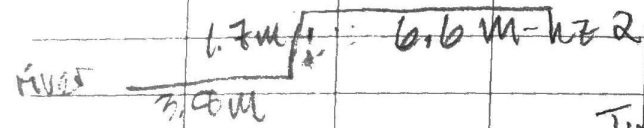


21 Aug 19

Site 9

- LP1: 5m x 65cm - top of jam
- LP2: 9.5m x 61cm - base of jam
- LP3: 6m x 34cm - " "

Transect from ch-side inward



| Transect 1 | Transect 2 | at GPS pt |
|------------|------------|-----------|
| 42 cm      | 18         | 18        |
| 19         | 29         | 24        |
| 17         | 22         | 31        |
| 16         | 16         |           |
| 16         | 29         |           |
| 14         | 18         |           |
| 13         | 23         |           |
| 24         | 26         |           |
| 11         | 12         |           |
| 45         | 13         |           |
| 16         | 22         |           |
| 13         | 19         |           |
| 19         | 12         |           |
| 11         | 12         |           |
| 11         | 13         |           |
| 15         | 19         |           |
| 15         | 22         |           |

Transect 2 - 30 m hZ, ds ~ 10m

| From T1 | hZ | ds ~ 10m |
|---------|----|----------|
| 13      | 13 | 10       |
| 20      | 14 | 12       |
| 43      | 34 | 11       |
| 10      | 18 | 19       |
| 11      | 19 | 26       |
| 16      | 12 | 13       |
| 16      | 20 | 12       |
| 19      | 12 | 18       |
| 21      | 17 | 25       |
| 29      | 14 | 17       |
| 16      |    |          |
| 14      | 21 | 21       |
| 11      | 13 | 10       |
| 14      | 10 | 12       |
| 10      | 14 | 24       |
| 16      | 13 | 30       |
| 14      | 25 | 30       |
| 12      | 23 | 10       |
| 10      | 10 | 10       |
| 10      | 21 | 19       |
| 10      | 12 |          |
| 15      | 14 |          |
| 11      | 24 |          |
| 18      | 24 |          |
| 14      | 12 |          |

(20)

Tr 9 66253, 13A, 32440 (up)

15 m long

|    |    |
|----|----|
| 20 | 19 |
| 22 | 21 |
| 15 | 16 |
| 15 | 18 |
| 10 | 24 |
| 12 | 15 |
| 21 | 15 |
| 14 | 12 |
| 11 | 10 |
| 11 | 11 |
| 21 | 34 |
| 10 | 25 |
| 15 | 11 |
| 15 | 10 |
| 16 | 12 |
| 13 | 13 |
| 11 | 16 |
| 17 | 21 |
| 10 | 14 |
| 12 | 19 |
| 12 |    |
| 14 |    |
| 21 |    |
| 27 |    |

Site 14

LP1: 280 cm x 4.6 m

LP2: 34 cm x 6.5 m

both in old berm deep in thicket  
of deciduous saplings

LP3: 47 cm x 13 m, on beach

22 Aug 2019

Marked 3 coast #1

samples in the embayment of the  
GPS pt

CLP1: 3.9 m x 19 cm, landward side →  
~ 5 m from edge

CLP2: 33 cm x 9.9 m; ~ 10 m from  
water's edge

dep is 70 m x 107 m

Transect 1: 69.40342, 133.03296

Coast 2 - 1 sample

40 cm x 5.9 m

Coast 3: 6.2 m x 32 cm #1

Coast 3: buried landward, under  
shrubby willows #2