



ALL-WEATHER  
**OUTDOOR JOURNAL**

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Project Mackenzie Wood

Notebook 7



**RiteintheRain.com**

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US Pat No. 6,863,940  
7-16

walking along  
beach GPS points to  
trace. Not really  
a berm but line  
of larger logs

In Alicia's Journal  
for site III

Aug 22, 2019 - Thursday

- We drove to Tuk to  
look @ driftwood on  
the ocean.

Site: coast I

Near Tuk there are these  
bays of ~~no~~ water and  
driftwood gets piled up.

Wood is no longer  
cylindrical - much more  
weather ~~we~~ and wind

worn than wood in the  
delta.

69.40357 > GPS Coord  
133.03130

fabric of pile is much  
more criss crossed &  
wood is splintered lengthwise

drone - I'm flying  
obliquely along deposit  
then taking video, then  
flying back taking  
photos looking straight  
down.

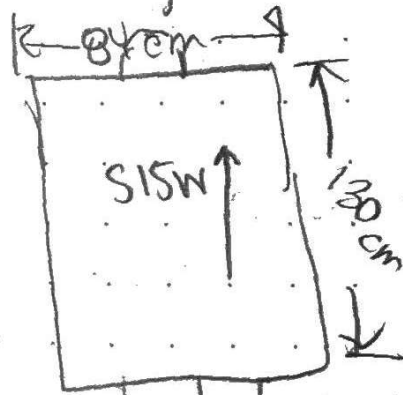
Ellen is measuring  
depths across deposit  
to get an idea for calibration

Jam is very packed. Its  
probably about right to  
assume close to 0-10%  
porosity. more densely  
packed on backside as  
new wood is crammed  
against



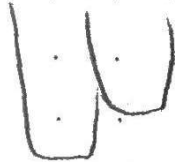
flew @ 119-120 ft for  
downward facing  
photos.

Measure square plywood  
in bay as scale



1. took  
2. photos.  
one included  
the car

Mag. Decl.  $20^{\circ}E$   $\sim 21^{\circ}E$



flew drone straight up.

# Detail Trasect across center of jam.

#5A - wood oriented toward shore not // edge of water  
 Z1 - small pieces also imbricated

①

Z2 - increase in pulp & random orient. small pieces packed in tight w/ larger pieces layered on top.

②-③-④-⑤

Z3 - No logs but #6 countable, larger small pieces, drier.  
 orientation more random like Z2. not // to shore wood is not yet crammed

	D	L	W	orie	
①	36s	3.6m			N75W 6N
②	15-R	1.7		splint splint	N60E 40
③	17S	2.22m	4cm	splint	N10W 40
④	13s	0.86		roundish	N50E 40
⑤	12s	1.07			N87E 40
⑥	18R	1.44			S40E
⑦	14r	1.12m			S15E 40
⑧	37s	5.74m		rounded	S43E 40
⑨	10s	.80m			N5W 40
⑩	23s	4.20m			SSE
⑪	15s	0.98m			N20E 40
⑫	21	2.96m			SSE 9° S
⑬	11	4.34m			S30W 40S
⑭	76	1.62m			S24W 40S
⑮	14	1.7m		splinted	S60E 10NN
⑯	10	3.5m			S20E 4°N
⑰	24R	2.3m		Rounded	SSE 20N
⑱	12	1.78m			N50E 3°N
⑲	23	5.7m		splint	N50E 3°N
⑳	18	1.78			



↑ Z 4  
 6m 704m  
 8 @ 2.1m  
 9. @ 3.2  
 10 @ 4.5  
 11 @ 5.5m  
 25  
 21  
 35  
 19  
 26  
 19m

Wood is crammed together higher density  
 larger pieces. almost no pulp @ surface  
 fairly dense  
 ~10%  
 Tollen took carbon sample out of log of  
 sight drone board  
 Wood is pushed together & a lot thicker. Wood is hard to walk on  
 small pieces tinkle down. Density near 60%  
 Wood is more compact & easier but character similar to 25.

Z 7  
 50  
 30  
 114m

Wood is older & more decayed. mostly splintered & very compact

GPS- & photos on  
coast. I took some  
on my cell phone  
3 posts on top of  
rounded wood.

133.04146

Coast site in Tuk  
Town, within small  
inlet.

69.44614 Coast #2

133.03468 Carbon  
Ellen took a sample.

### Coast site 3

Older burned large  
pile of wood.

Log where I am flying  
from is the log that I  
am going to use for  
calibration of drone.

7.1 m long

# flight ~ 160ft.

during flight I lost  
connection with drone  
as a result, I don't have  
full coverage of the  
jam.

On drive I collected some  
buried wood between jam  
& road. On drive out of jam  
1st past sewage bay or  
Coast site # in next

Way over there is  
a small amount  
driftwood showing,  
but this is because  
the rest of the  
deposit is being  
vegetated. Unfortun-  
ately it was a end of  
day and we  
didn't stop.

### tomorrow

- get camping gear
- scope out flights for Akla vic  
visitor centre
- call councils
- Present posters
- scope out air photo library
- transfer out of dorms?
- publicity paper
- rent a canoe?
- call CBC & Radio

RCC

Driftwood  
Punlatuk

→ Northright  
→ Canada heli  
→ Aklak

### Collecting Driftwood

→ Dennie Conley  
678-0588

Melissa  
Rogers  
867-2058

→ Dave & Dean McCloud  
Eddie & Margo.  
Aklaik?  
Dean & Hamlet  
Rec Cord

- Monday Morning  
10 am elder meeting

Out on coast 8/31/2019

East of town.  
 Long ribbons of driftwood  
 shoreline deposit,  
 at least 60 miles from here  
 it looks like this.  
 Wood is always changing  
 big one (LP 7)  
 80-90 clicks wind moves logs  
 around.

→ D transect 2. 69.46535 132.99306

TL	SWS	S	L	TR
90	S30E	D		1
16	S15E	C	1.20	
17	S25E	C	2.2	
18	N75W	D	3.30	
23	S50W	C	2.4	
23	S45W	C	1.05	
32	S26W	D	3.85	
49	N50W	C	2.09	

Width = 10.4  
 depth = 15  
 $\phi = 80$   
 photo = 356

T2 strat transect 69.466037 132.994133

$\phi$	W	d	W	starts inland
99		25	24	① grassy inland area scattered long logs.
70	5cm		1.5m	② 24m small piece of wood back wash of 6 of last berm
40	7cm			③ 6 last berm 28 $\phi = 109$ # max
50	20			④ stem back photo 374
95	2			⑤ 30 cobbles 375 20.5
40	20			⑥ 32.5 beryly lots logs 377 in 10cm
60	38			multiple berms crammed together 378
95	2cm			35 35.5 cobbles
70	15cm			37.4 front wash new wood

# Coast 4

loc	$\phi$	<u>w</u>	<u>th</u>	<u>Ph</u> / <u>NO</u>
69.46535 132.99306	80	10.4	15	356
69.46547 132.99321	(50) (80)	<sup>two</sup> (2m) (3m)	(.4) (.10)	358- 359
69.46558 132.99335	9.8	2.4	8cm	360-361
69.46568 132.99352	75	10.1	15cm	362-363
69.46577 132.99370	45	10.9	20cm	364-365
69.46585 132.99385	50	10.8	12cm	366-367



TL 2

D	L			
6	56ms	645m	840E	344
7	41	1165	829E	BC Root 144
8	47	1.7	N52W	large taproot 3-44
9	12	1.28	NSW	C 1-44
10	18	1.2m	NO	C 1-44
11	19	2.16	NSW	C roadwad 2-44
12	18	2.04	SIZE	C root 1-44
13	12	1.7	S40E	C root 1-44
14	12.5	1.56	N14W	C root 2-44
15	17	2.0	N20W	C root 2-44
16	15	83	S4E	C 244
17	0		S70E	D

↑ further inland

Decayed perched old deposit  
GPS Boundaries.

69	466168	132.991457
69	466028	132.991654
69	465846	132.991725
69	465851	132.991914
69	465907	132.991176
69	466000	132.991200
69	466078	132.991159

## Leave No Trace code of ethics

- Plan ahead and prepare
- Stay on trails
- Camp on durable surfaces
- Dispose of waste properly
- Leave what you find
- Minimize campfire impact
- Respect local wildlife
- Be considerate of others



avoiding & surviving

## HAZARDS of the back country



black bear  
sloped face and back  
long ears, short claws



grizzly bear  
flatter face, short ears  
humped back, long claws

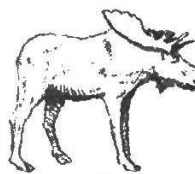
### Bear

Make yourself known on trail by talking or wearing a bear bell. If encountered, avoid eye contact and back away slowly while speaking calmly but audibly. appear large. If attacked by grizzly, play dead. laying flat on the ground covering back of neck and head. If attacked by a black bear, fight back!



### Elk & Moose

Maintain 50-foot distance, and avoid any noise or motions that may surprise the animal. Walk around animal in wide circle if seen. If encountered, back away slowly and avoid eye contact. Get behind a tree if charged.



### Cougar

Mountain Lion or Puma

Enlarge yourself with arms or pack. Yell loudly and confidently. Pick up small children but do not bend, crouch, or turn your back. Maintain eye contact and confidence. Fight back if attacked.



### Snake

Stay on established trails and do not disturb rocks, brush. Create distance immediately if encountered. Do not cut, tourniquet, squeeze, ice, or suck venom from bite - simply dress wound and get medical attention.

slotted eyes typically indicate a venomous snake.



### Spider

Wear long pants and sleeves in brush. If bitten, wash area with soap and water and apply ice. Beware of joint pain, nausea, fever, trouble breathing, abdominal pain - all signs of a dangerous bite.



### Mosquito

Keep tent closed, and use nets in mosquito locations. Wear long sleeves and pants treated with EPA-registered insecticide. Beware of fever, headache, rash, joint pain, muscle pain, and red eyes.



### Tick

Wear long sleeves and pants treated with EPA-registered insecticide. Remove attached tick as soon as you notice by grasping with tweezers as close to the skin as possible and pulling straight out.



### Poison Oak & Poison Ivy

"Leaves of three, let them be" applies to poison oak and poison ivy. Contact with plants leaves causes rashes behind immediately wash skin contact areas as well as tools or clothes that may have been in contact. To reduce exposure.

James Pokiak

225  
Beaufort drive  
yellow  
100000  
2000

- NW - driftwood as far as
- Franklin bay
  - Cape del house
  - Cape bathers
  - Peters out further N.

W to Alaska

Itershal, Clarence lagoon  
Komakuk beach

Richards Island  
Hendrickson Island

- Chopper -
- Swirlin chopper -

► Roy ◀  
Okmey  
807-620-  
1006

New wood & old wood  
eroding banks

different perspective  
concern - Rivers around mts getting  
plugged up with debris.

slumping seal bundle.  
More shoals drops right  
away.

Not much new wood.  
lots wood big pile up ice  
but not as much ice

ice is just melting not  
jamming. last few years  
next to nothing.

gasel pieces - fresh.

50 yrs old - disintegrating  
piles up in inlets.

Old pictures 2 air port -  
inlets opening up more  
w/c wave pounding  
creeks plugged up.  
astor woods - smoke houses

- stay ► 1,000 ft - not spark  
hunt.

ATC - MIVIK - AKIADUJUK  
- Kingo channel -

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site 14

LP1: 240 cm x 4.6 m

LP2: 34 cm x 6.4 m

both in old berm deep in thicket  
of deciduous saplings

LP3: 47 cm x 13 m, on beach

22 Aug 2019

Marine coast 1

samples in the embayment of the  
LP3 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 55 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



1 200 000

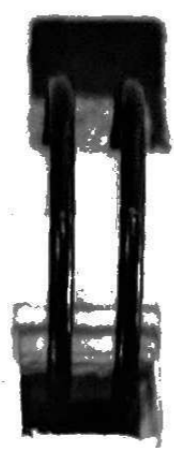
11.617 feet  
to 350 meters

350 meters  
2 100 000

1 500 000

11.617 feet  
12.700 meters

12.700 meters  
350 meters



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~~150~~

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Coast 1 gps: 69.40357, 133.03130

08/22/19

lake deposit on bank

photo 528

splinted deposit and angled

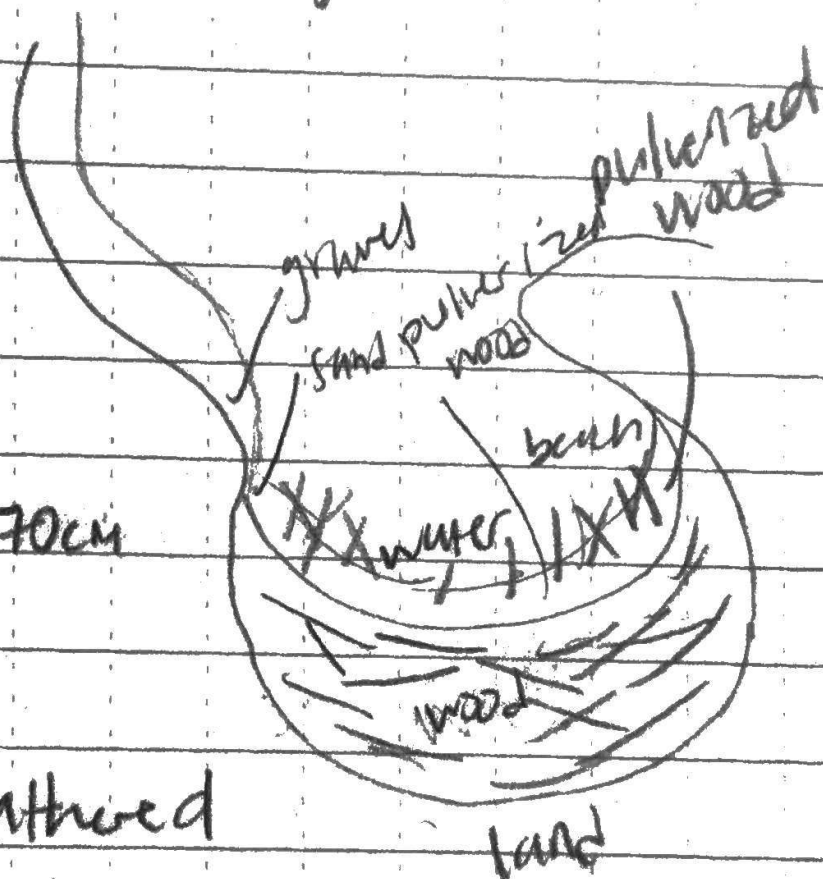
densely packed

but does not

fall through

at least  
depth 0.5m, 70cm  
porosity

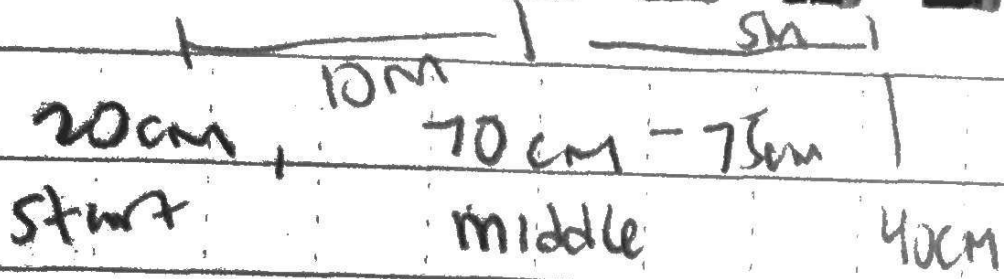
wood very weathered  
all bleached white



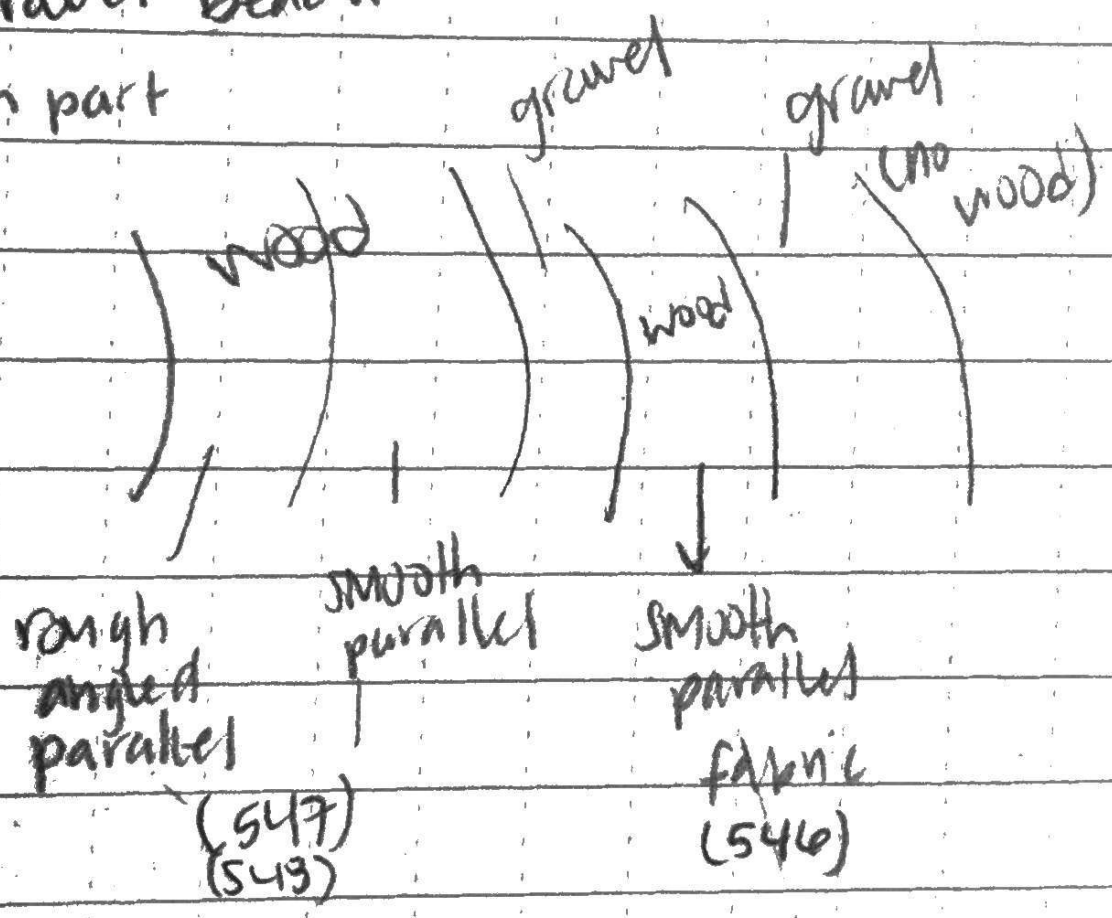
porosity increased as you move closer to  
lake

orientation of wood changes (see diagram)  
fabric is rougher approaching land

beach is pulverized wood then sand  
then gravel moving along beach



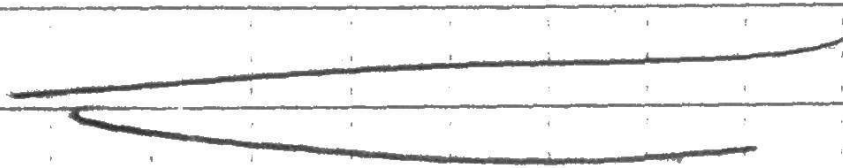
on gravel beach  
thin part



# Transects

water edge 5m

photos 554



Gps sites for wood in Tuk

① small deposit at Beach in Tuk,  
heading back from Arctic Ocean sign  
69.44920, 133.04166 (565)

② gps: 69.44614, 133.03468

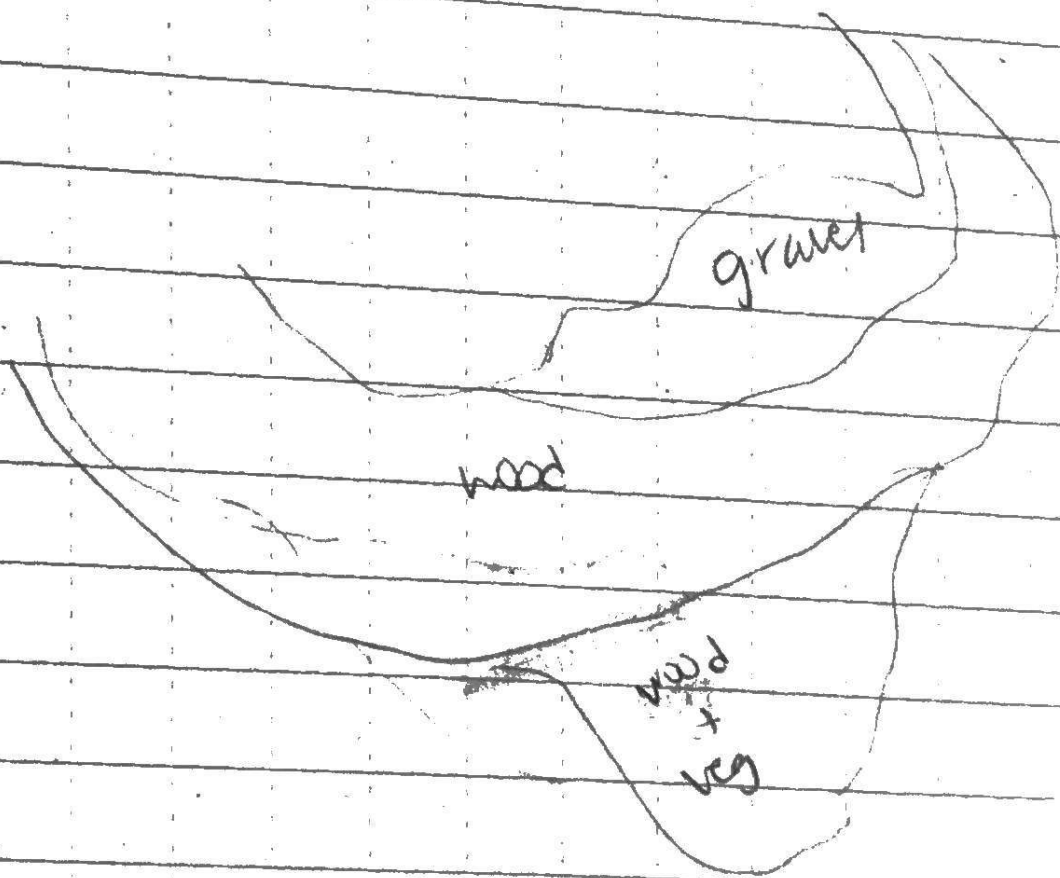
↙ beach deposit more extensive than 1  
least 2 sample taken from large  
log, (564/567)

③ gravel beach 69.44164, 133.04712

some scattered large pieces but few  
compared to beach extent

④ gps: 69.44006, 133.03497 (568, 69, 70)  
deposit in back bay w telephone poles

⑤ coast: (571) 574 69.43805, 133.03844  
anthropogenic influence at site, natural  
fabric at back



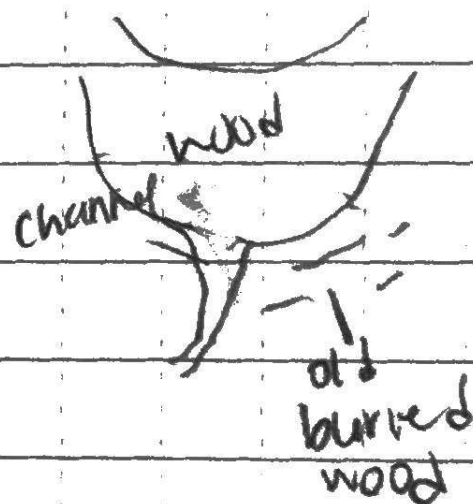
⑥ deposit near station w/ gradecut dunes  
69.43840, 132.99509

o/fo

7 Deposit in bay, kind of isolated  
near #6 69.43487, 132.99982  
(578)/579

8 deposit in back bay  
69.42295, 133.01640

has small channel w/ wood  
photos in phone



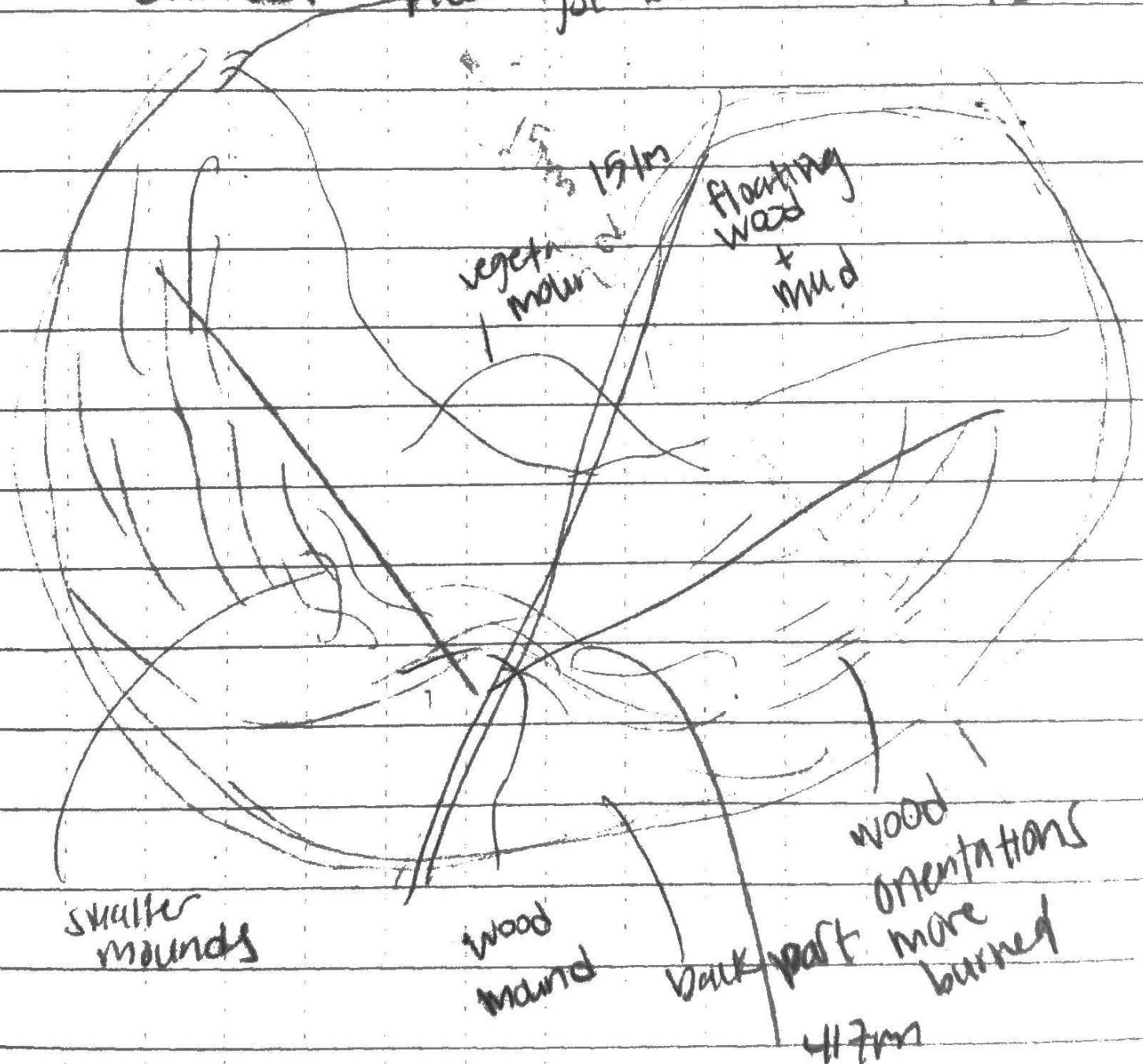


Coast 3

gps: 69.41220, 133.02626

photo  
580

big wood deposit in old bog, wood  
looks older and looks like it has been  
burned - pits got burned at site



looks more splintered, but thick, low  
porosity

08/31/19

coast 4

69.46535, 132.99306

photo  
338

East  
~~West~~ of Tulk, coastline covered with large wood

LP1 - wasn't here last year according to  
(<sup>GPS</sup> above) Ray - big honkan log  
6.7m long, 90cm dia.

current pushes wood either direction

80-100 clicks will move logs

next to LP1, gravel berm with wood piled on  
top then wood behind it

vertical shot of berm (353)

looking across from berm (354)

- larger pieces of wood in back

photo (355) length of visible part of log: 2.5m <sup>to sticks</sup>

LP2 dia: 50cm length: 0.45  
GPS: 69.46614, 132.99336  
old log set back from shore, between coast  
and bay (do)

Walking along beach (303)

- (386) gpc 69.46650, 132.99446  
(389) gpc 69.46698, 132.99466  
~~(387)~~ gpc 69.46794, 132.99486  
(395-398) end of walk

09/02/19

Coast 1 - lower water than first visit

gps	pic	note	Th(cm)	cp	decay
69.40130	422	CPDM	2cm	90	split
133.04282		vic			
69.40116	423		9cm	95	whole
133.04305					
69.40104	424		0	100	cobbles
133.04329	425		9		
69.40090	426		9	85	mixed
133.04323					
69.40102	427	2mm CPDM	0	100	
133.04295					
69.40115	428		0	100	mixed cobbles
133.04274					
69.40126	429		6	85	split
133.04253					
69.40122	430		6	85	split
133.04211					
69.40108	431		0.5	99	mixed cobbles
133.04225					
Starting @	422		0	100	sand

68

GPS      pic      —      Th       $\phi$       decay/not

69.40091      433      10      60      whole

133.04254      435

69.40076      436      32      18      whole -  
poorly sorted  
neat

133.04257

69.40080      437      14      75      neat sorted

133.04222

69.40095      438      0      100      cobbles/sand

133.04208

69.40108      439      3      97      Split

133.04195

69.40119      440      4      96      Split

133.04182

69.40118      441       $\frac{1}{3}$       0      100

133.04143

69.40104      442      0      100

133.04152

69.40089      443      0      100

133.04156

69.40075      444      13      40      max/sort  
mod neat

133.04158



<u>DL</u>	<u>loc</u>	<u>P</u>	<u>T<del>A</del></u>	<u>φ</u>	
69.40074		445	15	40	mod neat mod grey
133.04115					filling or <del>filled</del>
69.40089		446	3	97	
133.04111					
69.40105		447	0	100	
133.04103					neat sorted
69.40115		448	10	40	
133.04099					
69.40115		449	1cm	99	
133.04056					
69.40099		450	0	100	Sand
133.04056					
69.40085		451	0	100	Sand
133.04048					
69.40075		452	10	70	neat sorted
133.04041					
69.40079		453	14	80	neat sorted
133.04001					
69.40093		454	0	100	Sand
133.04008					
69.40108 / 133.04010		455	3	99	



69.40118	456	2	99	
133.03972				
69.40103	457	4	99	
133.03966				
69.40088	458	25	30	mod's mod sort
133.03954				
69.40090	459	8	90	messy mod sort
133.03912				
69.40105	460	0	100	
133.03928				
69.40121	461	0	100	1cm CRM.
133.03940				
69.40127	462	6	90	1/2 CRM Sort & org
133.03900				
69.40112	463	0	100	sand
133.03885				
69.40099	464	20	25	
133.03874				
69.40095	465	26	60	whole
133.03835				

69.40109  
133.03842

DUPLICATE 0 100

69.40123

467 2 99

133.03853

69.40135

468 4 90

△  
LUM  
FROM

133.03833

69.40122

469 0 100

133.03810

69.40109

470 0 100

133.03790

I THINK?

69.40098

471 7 90

133.03772

69.40100

472 10 50

133.03737

69.40112

473 27 20

133.03755

69.40125

474 0 100

133.03772

69.40139

475 2 99

133.03706

69.40146

476 9 60

133.03794

72

		Th	φ	↓
69.40155	477	20	25	
133.03767				
69.40144	478	8	87	CPOM 10 cm
133.03743				
69.40131	479	6	99	
133.03722				
69.40121	480	30	20	very poor sort
133.03696				
69.40115	481	30	50	well sorted
133.03673				
69.40125	482	22	20	as decayed
133.03647				
69.40137	483	23	50	720 hand on top of thick CPOM
133.03668				
69.40147	484	12	80	thick CPOM w/ buried wood
133.03693				
69.40159	485	15	80	on top thick CPOM
133.03716				
69.40170	486	20	30	
133.03738				



ht

69.40176 487 20 45

133.03706

69.40166 488 16 60

133.03677

69.40157 489 19 70 <sup>in 6cm</sup>  
open on bott

133.03651

69.40148 490 29 60

133.03619

←  
sured  
wet  
thick

69.40153 491 6 80 old.

old thick surface

133.03589

69.40161 492 15 50

133.03619

69.40170 493 13 85

133.03653

69.40180 494 9 35

133.03680

69.40194 495 9 50

Δ

133.03671

69.40186 496 14 65

133.03635



st

Rate in the Rain

69.40179 497 15 60

133.03600 1 W bank

pace spacing tonight along shore is

now 30 w/ 2 ± to shore @ 20

69.40195 498 27 60

133.03555 Sand

69.40202 499 14 95 lay on sand


133.03586

69.40209 ~~500~~ 22 50

133.03615

69.40214 501 18 50

133.03639

~~69.40232 502 15 50~~ 

133.03600

69.40225 503 10 55

133.03575

69.40218 504 25 60

133.03537

69.40235 505 20 60

133.03500

<del>switching to</del>		10	steps	1	to 15	
69.40240	506	10	94			(15 steps)
133.03523						
69.40246	507	13	85			
<del>133.03548</del>						<del>≡</del>
69.40268	508	3	25			<del>≡</del>
133.03531						
69.40260	509	5	95			
133.03494						
69.40254	510	20	75			
<del>133.03464</del>						
69.40266	511-	11	80			
133.03444	514					
69.40270						
133.03464	517	9	70			
69.40276						
<del>133.03493</del>	518	9	50			<del>▽</del>
69.40298	519	9	40			<del>≡</del>
133.03477						
69.40291	520	3	15			opom? or wood
133.03453						
69.40284	521	11	50			
133.03432						

# Small piece survey. 2 last

## Point

	length (m)	dia (cm)		length	dia
1	23	4	19	60	2.6 x 2
2	8 x	1 x 0.2	20	27	2.5 x 0.1
3	8.5 x	2 x 0.2	21	8	1 x 0.4
4	12	0.8	22	8.5	0.6
5	11 x	1.2 x 0.6	23	60	4
6	13 x	1.5 x 0.4	24	27	6 x 1.5
7	48	5	25	50	3
8	19 x	4 x 2.5	26	15	1
9	52 x	2	27	22	3.5 x 1
10	71 x	6 x 3.5	28	8	2 x 0.5
11	72 x	3 x 2	29	22	2 x 1
12	10 x	2 x 0.2	30	8	2 x 0.3
13	6 x	2 x 0.2	31	7	1.5 x 0.5
14	17 x	2 x 0.2	32	30	4 x 0.5
15	35	7	33	22	2 x 0.2
16	23	2.5	34	13	2.3 x 0.4
17	120	8	35	15	2 x 1
18	39	5	36	15	1 x 0.3

	length (cm)	dia (cm)	length	dia
37	117	9	51	3.5
38	26 × 3 × 2		44	5
39	21 × 2.5 × 1.5		14	3.5
40	12 × 2.2 × 0.1		108	3
41	20	1.5	76	8
42	28 × 1.5 × 1.5		8.5	1.5
43	25 × 3 × 1		sketch ↓	
44	22 × 2 × 0.3			
45	35 × 3 × 0.7			
46	20	2		
47	95	9		
48	26 × 2.5 × 1.7			
49	36	4		
50	19 × 5 × 1			
51	13	1.5	0.7	
52	20	3	2	
53	26	1.5		
54	38	3.5		
55	52	2		
56	23	12		



69.4027 ~~27~~ 527 30 80

133.03416 30

69.40289 528 12 85

133.03371

69.40299 530 9 90

133.03386 529

69.40308 531 9 60

133.03402 530



switch to 20 percent

69.40327 532 7 50

133.03375 531

69.40318 533 7 40

on top buried wood & 2" POM thick

133.03348 532

69.40308 534 17 80

133.03320 533

69.40309 535 22 50

decay old wood

133.03270 534

69.40316 535 22 70

133.03297

69.40322 536 8 85

on top of 7/2" POM

133.03366



OS of  
Switzerland

69.40331 537 9 40

133.03369  $\nabla$

69.40350 538 3 80

133.03354

69.40342 539 6 80 on top  
barrier

133.03296 714m

69.40338 540 67 70 ridge  
jungle

139.03238

69.40336 541 49 65 transition  
to meadow

133.03189

69.40332 542 69 50 old road

133.03131

69.40353 543 38 55

133.03127

GPS of pole for <sup>road</sup> gear

69.40333 133.03111

69.40359 544 50 70

133.03185

69.40359 545 58 80 the  
Jungle

133.03204

69.40361 544 05 70

133.03291

80

69,40364 547 9 85  
133.03352

edge w/ Mod beach

69,40384 548 6 95  
133.03336 549

69,40388 549 6 85  
133.03279 550

69,40388 550 28 50  
133.03226 551

69,40392 552 8 90

133.03200 552

69,40404 553 86 80

133.03229

69,40408 554 7 80

133.03268

69,40408 555 4 96

133.03316 557

69,40404 556 0 100

133.03355

GPS Road sign - near car

69,40430 133.03120  
*Rite in the Rain*