

Jim Lane's Field Notebooks Index Contd.

(Revised Index of 11/5/2014)

<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1992 on)_15	15	(29-04-95 / 17-05-95)
JL_(1992 on)_16	16	(18-05-95 / 18-12-95)
JL_(1992 on)_16A	16A	(08-11-95 / 11-11-95)
JL_(1992 on)_17	17	(21-12-95 / 19-06-96)
JL_(1992 on)_18	18	(19-06-96 / 03-08-96)
JL_(1992 on)_19	19	(23-09-96 / Mar 97)
JL_(1992 on)_20	20	(Mar 97 / Apr 97)
JL_(1992 on)_21	21	(16-04-97 / 12-06-97)
JL_(1992 on)_22	22	(12-06-97 / Oct 97)
JL_(1992 on)_23	23	(Oct 97 / Dec 97)
JL_(1992 on)_24	24	(Dec 97 / Jan 98)
JL_(1992 on)_25	25	(10-01-98 / 22-01-98)
JL_(1992 on)_26	26	(22-01-98 / 13-02-98)

TO BE CONTINUED

Jim Lane's Field Notebooks Index Contd.

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<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1970-84)_17A	1980-81	(01-12-80 / 15-11-81)
JL_(1970-84)_18	1982-83	(13-03-82 / 18-03-83)
JL_(1970-84)_19	1984	(15-03-84 / 16-03-84)
JL_(1970-84)_20	1984	(20-09-84 / 10-10-84)
JL_(1992 on)_1	1	(03-11-92 / 03-08-93)
JL_(1992 on)_2	2	(04-08-93 / 18-09-93)
JL_(1992 on)_3	3	(18-09-93 / 26-10-93)
JL_(1992 on)_4	4	(27-10-93 / Dec-93)
JL_(1992 on)_5	5	(14-12-93 / 22-12-93)
JL_(1992 on)_6	6	(23-12-93 / 06-01-94)
JL_(1992 on)_7	7	(18-01-94 / 18-03-94)
JL_(1992 on)_8	8	(21-05-94 / 08-07-94)
JL_(1992 on)_9	9	⁰⁸ (03 -07-94 / 02-09-94)
JL_(1992 on)_10	10	(02-09-94 / 17-11-94)
JL_(1992 on)_11	11	(22-11-94 / 9-03-95)
JL_(1992 on)_12	12	Jan '95 + (15-03-95 / 01-04-95)
JL_(1992 on)_13	13	(02-04-95 / 07-04-95)
JL_(1992 on)_14	14	(07-04-95 / 29-04-95)

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<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1969-70)_1	'1969-70'	(Nov 70 / Jan 70)
JL_(1970-84)_1	1970-71	(6-12-70 / 17-2-71)
JL_(1970-84)_2	1971	(08-03-71 / 21/01/72)
JL_(1970-84)_3	1972/73	(24-01-72 / 15-02-73)
JL_(1970-84)_4	1973	(05-03-73 / 15-11-73)
JL_(1970-84)_5	1973-74	(12-04-73 / 11-06-74)
JL_(1970-84)_6	1973-74	(03-12-73 / 28-03-74)
JL_(1970-84)_7	1974-76	(03-05-74 / 24-10-75)
JL_(1970-84)_8	1974	(26-05-74 / 18-11-74)
JL_(1970-84)_9	1974-76	(28-08-74 / 02-10-76)
JL_(1970-84)_10	1974-76	(21-12-74 / 25-01-75)
JL_(1970-84)_11	1976	(25-10-76 / 27-11-76)
JL_(1970-84)_12	1977-78	(16-10-77 / 21-03-78)
JL_(1970-84)_13	1977-78	(24-10-77 / 19-04-78)
JL_(1970-84)_14	Oct 78-Apr 79	(06-10-78 / 14-04-79)
JL_(1970-84)_15	1979 (Apr-Sep)	(16-04-79 / 19-09-79)
JL_(1970-84)_16	1979-80	(26-09-79 / 23-05-80)
JL_(1970-84)_17	1980	(14-05-80 / 07-11-80)

Sec 260 16A
(8/11/95 → 11/11/95)

Nº 16



NOTE BOOK

No. 561

J. LANE

CALM JSN

18/5/95 → 18/12/95

①

TO DO

Th fax to Amelia

Silver gull gear - motor drive
batteries.

Acids + log books → Lois.

Fri - Main contour maps
for Ben.....
- Retire.

Christine Paxton Ward

- £ bond 1400
- 2 weeks rent in advance
- start 26/5 (Fri)
(condition report will be done
Wed 24/5)

(2)

Fri 30/6/95

Ian Farmer (CASH Pilot Bungay)

Take out 8000 from Dy

Land at 0935 at Dy

Photo'd Verse - Wandering - Broadwater - 2 films.

Chris

John Tugge

Peter

★ Contour Maps Ben
★ Peter

Sun 18 June 95

Took family to Emu Lake
Reserve for walk. On the
way there & back we saw
a flock of Black Swans grazing
in ^{short} green pasture on paddocks
("dempish") on east side
of Queen Elizabeth drive, 5.4 km
south of Russell Hwy. We
counted the flock on the way

(4)

Back from Cambridge at approx
11 am. There were 130
swans in this feeding flock.
They were approx 500 m E
of Queen Elizabeth Drive.

Sdent 29/6/95

(5)

Kent Aveary

Bsa Blind + Airways

— boat cover

(Charlie Broadbent)

Thurs 29th June '95

Bob Fitzgerald, Peter Mawson, Andrew Horner
Charlie Broadbent, me, met at Bsa
EAM office at 10am.

There is a document called the
"Gull Mgmt Plan" of CATER
and this has been sent to Steve.

1030 - 1100 am at Ridgway Swamp

* 200-300 gulls

(mostly Craigie's
property)

* 10-20 old nests in trees (most empty)

* ^{current} no nesting in swamp

activity by gulls, though I saw
one standing with nest material.

⑥

29/6/95 contd

Broadwater - 1105 hrs

view from W side

c 50-100 gulls on + around
reed island 200 m from West
shore. c 10 of these perched in
these trees.

Dy white goose (?) on S side
of Broadwater.

Tingy / Goodall area mounds pulling
apart - good photo possible
Also good ^{photos} possible of vegetation being
destroyed.

Drove to Water Authority sewage
treatment plant - c 50 gulls
and c 500 ducks (Red + Grey)

29/6/95 (7) Contd

Drive to Council rubbish tip

- zero gulls!
- but Peter said majority of tips is 30 yrs behind times.
- rubbish not covered, water ponding in tip area.

Went to Bsa Council Works

at 1145 hrs - met Nigel Bencroft - told him of approach needed.

Finished at 1215 hrs.

Vessa Flungate = +0.48 m at 0953h

Wormery " +0.19 m at 0959

⑧

$$\$122/\text{day} = \$610/\text{week}$$

$$\Rightarrow 10 \text{ weeks} = \$6,100$$

$$= 15 \text{ weeks} = \$9,150$$

9

Sat 8 July 95

Passer Plongate ~~at~~ gauge $\pm 0.46m$

Water level higher on ocean
side - see water leaking in.

Strong NW wind, rain!

Sat 15 July '95

0' night at Crabshell Mirel.

Cooley marshes from 0820

to 0920 hrs. Water level

has been very high in past few days
due to low pressure, high winds &
high astronomical tide & rain. Helioscopia
is choked with rubbish & bird material

Green marshes and
Harvey Estuary

15/7/95 Contd

Took many photos of rabbit in scrubland
with last of 50 ASA film ^{Ektachrome} and
beginning of 64 ASA Kodachrome.

There were zero Banded Sheld
in the lagoon & marsh area.

Island Pt Gauge = +0.34 m at
1010 hrs on 15/7/95

Sta	Time	Depth	Sal	Temp
①	1100	0.1	15.0	14.5
		0.2	"	"
		0.4	"	14.4
		0.6	15.2	14.3
		0.8	15.3	14.4
		1.0	18.6	14.8
		1.2	19.7	14.8

Harvey Estuary

15/7/95 Cont'd

(11)

Stn.	Time	Depth	Sal	Temp
1274		1.4	20.5	15.1
↓		1.6	25.4	14.9
0	1110	1.8	26.1	14.9
1	1115	0.1	10.0	14.2
↓		0.2	15.3	14.5
↓		0.4	15.5	14.5
↓	1119	0.5	15.7	14.5
2	1124	0.1	8.5	14.1
↓		0.2	8.6	"
↓		0.4	"	"
↓		0.6	14.8	14.3
↓	1129	0.7	16.0	14.3
3	1135	0.1	7.5 17.2	13.7
↓		0.2	"	13.6
↓		0.4	8.4	13.8
↓		0.6	11.1	14.0
↓		0.8	16.0	14.4

(12)

Harvey Estuary Contd

15/7/95 contd

Stn	Time	Depth	Sal	Temp
3		1.0	17.6	14.3
↓		1.2	20.2	14.5
		1.3	20.9	14.7
	1143	1.4		
4	1148	0.1	8.0	13.7
↓		0.2	8.14	"
		0.4	8.4	"
		0.6	11.3	14.0
		0.8	16.3	14.3
		1.0	18.3	"
		1.2	19.8	14.4
		1.4	20.4	14.5
4	1155	1.6	21.3	14.6
↓		1.8		
	1201	0.1	8.5	14.2
		0.2	"	"
		0.4	"	"
		0.6	10.9	14.4

Hervey Estuary Contd 15/7/95 13 Contd

Sta	Time	Depth	Sal	Temp
		0.8	15.6 18.2	14.6
		1.0	17.0	14.6
		1.2	19.3	"
		1.4	19.8	"
5	1209	1.6	20.5	"
6	1214	0.1 0.1	8.0	14.0
		0.2	8.1	14.0
		0.4	7.4	"
		0.6	"	"
		0.8	14.1	14.8 14.8
6	1220	1.0	18.2	15.0
7	1226	0.1 0.1	6.7	13.9
		0.2	6.8	13.9
		0.4	"	"
		0.6	7.1	13.7
		0.8	11.0	14.5

(14)

Herring Estuary & River

15/7/95 Contd

Sta	Time	Depth	Sel	Temp
7	1231	0.9	13.9	14.7

Water level high, no birds
 exposed at mouth of delta.

Zero birds except 1 M. Alta
 roosting in mudflats

Gyrfalcon and Peregrine in channels
 of delta. also LBC & WPC.

0.0 km 1239 0.1 0.5 13.9



1242 0.9 0.5 13.9

0.5 km 0.1 0.5 13.9



1246 1.3 0.5 13.9

~~15~~

Henry K. + Estuary 15/7/95 ⁽¹⁵⁾ Contd

Sta	Time	Dypt	Sal	Temp
1.0	1249	0.1	0.5	13.9
K	↓	↓	↓	↓
↓	1249	1.0	0.5	13.9

1.5	↓	0.1	0.5	13.8
K	↓	↓	↓	↓
↓	1255	1.4	0.5	13.8

1.8	1307	0.1	0.5	13.7
hole	↓	↓	↓	↓
↓	1309	3.0	0.5	13.7

200	1333	0.1	6.3	14.3
m		0.2	"	"
S		0.4	6.4	"
of	1337	0.6	10.0	14.2
Island		0.62	11.2	"
pt				

(16)

Henney Estuary contd

15/7/95
contd

1343 hrs checked

Henney gauge 36.0 ppt

rotunda. It reads

36.15 ppt

Island Pt gauge

reads +0.42 m at 20

1406 hrs.

20

~~21~~ / 7/45

(17)

Vase Drain
Gage on

reads 0.86 m at 0812 hr.

New River gage reads

0.80 m at 0816 hr

Bar open.

John & Chris (driver)

Bugamp Drain

— 0.50 m at 0834 hr.

Bar open

0838 Fly Belhel into Bugamp open

Rabbits - holes than levee banks.

discussance attempt at Plasterin control.

get APD to bait instead

Locks Swamp drain

0.80 m at 0847 hr.

(18)

20/7/95

This drain is just E of Radio tower
Entrance duct off Scott Assn Vess
composite.

Lemoine Drain (Cribcamp further
upstream) at 0855 hrs.

Fanner's (Rose) drain flowing out
into it. He has broken the

Plate 1-2 0908 hrs.
Rose's weir - gauge 0.8m
downstream

Leopards come up here.

Station gully 0920 hrs
flows into Bay where Tokyo Inlet
discharges - 2 photos.
Recess

(19)

Marybrook Drain - gage
at 0935 hr reads 0.80
Door open.

560 miles of drainage in Bsn area

Shelton Gully drain - 0.6 m at 0944
(near mouth - under Hwy
bridge)

Photos of Tokyo Inlet outlet to ocean

1044 hrs - photos of Baskin factory "weir"

Vasee flowmeter = 0.9 m at 1056
— photos taken

1100 hrs - bar open - water pouring out.

(20)

Pluggie

20/7/95 contd

Warrup gauge = 0.81 m at
photos. 11.15 hrs.

Under levee 0.42 m
at 11.25 hrs - photos

Capal River ^{outlet} at 12.10 hrs.
lunch. Bar open
with flowing water
strongly.

Manning Drain — 1.48 pm
Bar open — flowing out strongly
0.71 m gauge — photos

Five Mile Brook — 2.15 pm.

a "Pensstock Wheel" at

"Muddy Levee" — 2.28 pm

(21)

Muddy Lake^a flows into ~~the~~ ^{Manning} Drain

Vasse diversion drain

- penstock weir that ~~allows~~
controls flow from diversion drain into
old Vasse River water course

- 3.19 pm - 2 photos

Weir closed so no flow into Vasse River.

Vasse Estuary floodgate reads +0.84 m
at 5.18 pm on Th 20/7/95

Photo of flooded Lygon Rd at 1725'
hrs.

(22)

Fri 21/7/95

1st Nest

- 1 egg cold, nest moving
with ropes - photo 31

2nd Nest

- no eggs, moving, photo 32

3rd Nest

- 1 egg, photos 33-36

4th Nest

- 3 eggs, cold, photos 1-3
nest moving, material pulled up
egg c 10 cm above water level

5th Nest

- 5 eggs, cold, beetle, spider
photos 4-6. Water touching bottom
of egg

6th nest (1.25 pm) - 1 egg
egg $\frac{1}{2}$ in water, material pulled over top
(loose) - photos 7-9.

7th nest - 1 egg with material over
top + flattened - egg $\frac{1}{2}$ in water
photos 10-12.

8th nest - 2 eggs 10cm above water level
- photos 13-14.

9th nest - 5 eggs $\frac{1}{2}$ - $\frac{3}{4}$ under water
nest moving in waves - photos 15-19

10th nest - 5 warm eggs - material
pulled up - above water - photos 20-21

(24)

11th nest - photos 22-23

5 cold eggs - material pulled up
eggs above water

12th nest - photos 24-25

5 cold eggs - $\frac{1}{2}$ in water

nest moving a lot with waves

13th nest - 2 eggs warm - above

water - material pulled up.

photos 26-27

14th nest - 3 eggs warm - 1 egg

above water, material pulled up

photos 28-29

15th nest - 4 eggs cold

photos 30-31

(1.57 pm)

(24)

11th nest - photos 22-23

5 cold eggs - material pulled up
eggs above water

12th nest - photos 24-25

5 cold eggs - $\frac{1}{2}$ in water

nest moving a lot with waves

13th nest - 2 eggs warm - above

water - material pulled up.

photos 26-27

14th nest - 3 eggs warm - 1 cold

above water, material pulled up

photos 28-29.

15th nest - 4 eggs cold

photos 30-31

(1.57 pm)

16th 5 yrs or more
plot 32

Water level (SWL)
= 0.85 m at 2.23 pm

Warrup Floodgate Gauge
= 0.47 m at 3⁰⁰ pm

Don't use to calibrate logger
as water rising out at great
rate + no doubt localized lowering
of water level

3.06 pm water gushing thru culvert
under Legmore Rd from Vease Estuary
to Warrup Estuary.

16th 5 yrs. in water
p. 32

Water level (still)

= 0.85 m at 2.25 pm

Warrump floodgate gauge
= 0.47 m at 3:00 pm

Don't use to calibrate logger
as water rising out at great
rate + no doubt localized lowering
of water level

3.06 pm water pouring thru culvert
under Legman Rd from Vase Estuary
to Warrump Estuary.

(26)

Water level at Versa

using floodgates

= +0.70m at 3.13 pm

Don't use to calibrate logger as water
is gushing out.

Andy Chapman: 090 212

TO DO: Mon 4/9/95 →

~~Phonebook from office~~ ✓

~~Postcard from office~~ ✓

~~Postcard from office~~ ✓

E.R. Pearce - roof leak & heater leak

~~Andy Chapman - arrival time~~ ✓

~~Accountancy - Kal I - flights?~~ ✓

Boarded suit permit.

Cassettes

Good sunny library? - grammar holes & V-dw.

~~Vehicle service phone~~ ✓

Net Reports - Rensar

Insect ^{Sun} - 27/8/95

Took Gerritt + Chloe in punt. Landed
at Ford Road. Photographed trees. Heard
motobike frogs (numerous) and Bango
Frog. Saw 2? broods of Shelducks
Class I (large) ducklings - 18 in total.
Saw 1 large tadpole in Vase Estuary on
bank before widens right out

Tues 12 Sep 95

1015 hrs - Tordit-Garmp

Lagoon - depth ≈ 1.93 m

One Sherg-headed Sandpiper
feeding at water edge.

1 pair Shelducks also feeding in
v. shallow water here.

(28)

Tjamp's Lagoon had a yellow
algae bloom - microscopic

- most evident in areas with
sandy bottom - appeared to
be full depth of water column
(note that no evidence of algae
bloom in Toodit-Gorup or
Poo-gung)

Yellow algae bloom also evident
at a 2nd spot I checked
further north (100% of metres) along
the E shoreline $\Rightarrow$ presumably
occurs throughout the lake.

Water clear at lake Minor
with masses of Daphnia - 2
types - a large grey type

(28)

Theraps Lagoon had a yellow
algae bloom - microcystis

- most evident in areas with
sandy bottom - appeared to
be full depth of water column
(note that no evidence of algae
bloom in Tootit-Gorup or
Pogonup)

Yellow algae bloom also evident
at 2nd apt I checked
further north (100% of meses) along
the E shoreline $\Rightarrow$ presumably
occurs throughout the lake.

Water clear at Lake Muri
with messes of Daphnia - 2
types - a large grey type

12/9/95 ⁽²⁹⁾ Cont'd

and a small red dye in
roughly equal numbers.

No other lakes to date (this trip)
have had either algal bloom
or masses of invertebrates

Owinyap Swamp 4 pm

1 Marsh Heron flew past
low over the Swamp

Wed 13/9/95

Moika Lagoon

— algal bloom — green algal
"particles" on surface — not severe.

(30)

Send to:

Ian

Swamp Rd

GARDENER RIVER ~~6037~~ 6337

pH salinity depth etc
Yellilup

Lake Davis Fri 15/9/95
0940 hrs.

10 X PADD

5 SIGL - washing

1 MUD

several *Limnaea adelsiensis* heard calling
from sedges on S. side of lake.

Small lake on right hand (West) side
of track into Broadwater gauge

1 PeBD with $\frac{9}{1}$ large Class I ducklings

1 Gosh + 2

2 Coot

1 ♂ Shoveller and 1 ♀ (Together)

3 PeBD

1 Ans Grebe

1 PeBD sitting on large branch of
large Mel. eucalyptus at West end
of the lake -- 3.5 - 4.0 m ~~above~~
above water surface

(32)

- don't want vegie ^{growers} ~~plantations~~ to
leave

- have we stopped fuel pigs
coming into the area.?

Byerup - swales drying
where water from pine
plantation goes into Byerup Swamp.
- Beasel blames herbicides - "Vorox?"
what?

"Jordving" + "Leerup" - persons
going in from some common
property. Herbicides from pines

I told Beasel I would like
to see this.

Neil Cox (Ag Dept) said they had
stopped using Vorox because it gets
into sheep.

(34)

sketch 4 / 10 / 95

Vance Estuary floodgates at 0703 hrs
read + 0.28 m

- moderate W wind
- boards in - water level below them
- flap valves closed.
- water level practically lower on seavside
- mass of Ulva and a ruppia like (grass structure) on estuary side of floodgates (photo 20 of 100 ASA film)

^{Long} Womney ^{gauge} floodgates at 0711 hrs
reads + 0.30 m

- light to moderate W wind
- all boards in
- flap valves closed.
- water level over 2 of the board.

- 5 Class III GYT6 droplets resting on the boards.
- A small amount of Ulla on estuary side - also some Pinguicula like plant material.

Wormup cast ("buried house")
 gauge read $+0.55$ m
 at 0725 hrs on 4/10/95

Vasse Estuary floodgate gauge
 reads $+0.27$ m AHD at 1006 hrs
 on Fri 6/10/95. Water level
 similar on either side. Call boards on.
 Water level above one board only. All flags

(36)

valves closed. Wind light. Light
drizzle. Mass of Uvae
observed on 4/10/95 still present.

Winnings estuary floodgate gauge
reads +0.30 m at 1013 hrs
on Fri 6/10/95. Water level
similar on both sides. All boats
in. Water level just over
2 set of ~~the~~ boards.

1 Gyrh with 5 class III shavings
on estuary side. 2 Pelvic ~~shavings~~.

Winnings lock gauge ("tunnel house")
reads +0.54 m at 1023 hrs
on 6/10/95. Wind light.

Sundance gauge reads +0.57
m at 1035 hrs on Fri 6/10/85
Wind v. light.

Fri 13/10/85

Flooded area to W of Ford Rd (I sat
in vehicle on Ford Rd (W). Start 1250 hrs.

GyTL - ~~1~~¹ pr with 9 Class III
ducklings - seeking refuge under
fencing plate fence from Marsh
Heron

PaDD - 1 adult with 4 Class III
ducklings. Feeding by splashing in
green water.

PaDD - 1 adult with 3 large
Class II ducklings resting / preening
on grassy (long) bank.

(38)

and 1 feeding in green water
1 Moorhen doing GyTH will
chickling away from joining Melaleuca

PuSungler - 3 seen ^{+ Solboschensis} ~~after~~
in short fine sedge (Ponded)

PesD - 1 pr with 7 Class III chicks
on the water

LPC - 1 perched on rock in water

- 3 perched on near (?) mound
in water

- 1 feeding in shallow lightly washed (fine)
water.

Shel - 1 pr feeding / resting in green
water.

Mersh Heron - one flew low and
landed - see GyTH accounts.

(38)

and 1 feeding in green water
1 Moorhen diving GtH will
drinking away from fringing Melaleuca

PuSungla - 3 seen ^{+ Belligscholensis} ~~after~~
↑ in short fine sedge (flooded)

PesD - 1 pr with 7 Class III ducklings
on the water

LPC - 1 perched on rock in water

- 3 perched on sedge (!) mound
in water

- 1 feeding in shallow lightly rusted (fine)
water.

Shel - 1 pr feeding / resting in green
water.

Marsh Heron - one flew low and
landed - see GtH accounts.

(39)

Ford Rd area ^{contd.} (Vase Est.) 13/10/95 contd.

Wt/Horn - 1 at water edge

Food 1315 hrs.

Womney Esty floodgates gauge
reads + 0.32 m AHD at
1330 hrs on 13/10/95

Wind light - mod SE. (light rain 4m)

~~4~~ 5 Class III byt ducklings on
eastern side of floodgates.

- flaps valves closed

- all birds in

- water level over 2 sets of boards.

- water level similar either side.

(39)

Ford Rd area ^{contd.} (Vase Est.) 13/10/95 contd.

W/F/tern - 1 at water edge

Faint 1315 hrs.

Womney Esty floodgates gauge
reads + 0.32 m AHD at
1330 hrs on 13/10/95

Wind light-mod SE. (light v. 4.4)

~~the~~ 5 Class III Gt. ducks on
eastern side of floodgates.

- flaps valves closed

- all birds in

- water level over 2 sets of boards.

- water level similar either side.

(240)

13/10/95 Contd

Vasse Estuary floodgate gauge
reads +0.31 m AHD at 1336 hrs.

- wind light mod SE (light
2 knots)
- all flap valves closed.
- 2 sets boards under water.
- water level slightly higher on ocean
side - faint bubbles in
- little Ulva left

Stent Th 19 Oct 95

Vasse Estuary floodgate gauge = 0.42 m
at 5.10 pm

Water level may be slightly higher on ocean side.

- 1 board covered
- 2 boards partly covered.
- remaining boards exposed.

All flap valves closed. No obvious leakage
or flow.

(240)

13/10/95 contd

Vasse Estuary floodgate gauge
reads +0.31 m AHD at 1336 hrs.

- wind light mod SE (light
SW in AM)
- all flap valves closed.
- 2 sets boards under water.
- water level slightly higher on ocean
side - faint ripples in
- little Ulva left

Sitent Th 19 Oct 95

Vasse Estuary floodgate gauge = 0.42 m
at 5.10 pm

Water level may be slightly higher on ocean side.

- 1 board covered
- 2 boards partly covered.
- remaining boards exposed.

All flap valves closed. No obvious leakage
or flow.

Th 19 Oct 95 ⁽⁴¹⁾ Contd

Wonnemup Estuary floodgates read $+ 0.47$ m

at 5.20 pm and all flap
velves slightly open ~~with~~ due
to a slight flow out.

All banks covered by water.

(19/10)
Wind today has been moderate
to strong from the South to the
South East. This may explain
the flow out at Wonnemup ~~the~~
versus the lack of flow out at
Vasse.

Very little live remaining at
Vasse floodgates. Don't recall any
at Wonnemup floodgates.

Th 19 Oct 95 ⁽⁴¹⁾ contd

Worreny Estuary floodgates read $+ 0.47$ m

at 5.20 pm and all flap
velves slightly open ~~with~~ due
to a slight flow out.

All boards covered by water.

(19/10)

Wind today has been moderate
to strong from the South to the
South East. This may explain
the flow out at Worreny ~~the~~
versus the lack of flow out at
Vasse.

Very little live remaining at
Vasse floodgates. Don't recall any
at Worreny floodgates.

(42)

Obj 2 — need to
cover "conservation reserves"
not visited in CACM.

- eg set goals rather than do.
- problem with CACM concentrating
on the CACM estate.
- "conservation reserves" would be
visited in other and could have
more than one purpose, but lets
say "conservation" should be $\geq 50\%$
of purpose.

What would Museum to take on Edmund Davis
collections — not interesting — delighted if
CACM were to take on

(42)

Obj 2 — need to
cover "conservation reserves"
not vested in CACM.

- eg set goals rather than do.
- problem with CACM concentrating
on the CACM estate.
- "conservation reserves" could be
vested in others and could have
more than one purpose, but lets
say "conservation" should be $\geq 50\%$
of purpose.

WMA wanted Museum to take on Edmund Davis
collections — not interested — delighted if
CACM were to take on

Alternate chairman & exec
support every 2 years -
2 new devel 6 positions - (AKA
& WRC) &

- ~~also no exec supp~~
- a level 5 for exec support
who goes between the two agencies.

* Rule Statement

* DEF - FPP's Left to do
- assessment
- pollution control

* Resources ←

←

Alternate chairman & exec
support every 2 years -
2 new level 6 positions (- CSM
& WRC) &

- ~~also no exec supp~~
- a level 5 for exec support
who goes between the two agencies.

* Rule Statement

- & DEF - FPP's ✓
- assessment
 - pollution control

Left to do

* Resources &

✓

(44)

Fri 27 Oct 95

Measurements schubert's around Kase-Wings
with Amanda Wilson.

Tested Hamon against 36.0 ppt standard.
It initially read 35.55 ppt. Adjusted
it to read 36.0 ppt.

(44)

Fri 27 Oct 95

Measuring salinity around Kase-Wonung
with Amanda Wilson.

Tested Hamon against 36.0 ppt standard.
It initially read 35.55 ppt. Adjusted
it to read 36.0 ppt.

Thurs 2 Nov 95

Vase Edge floodgate gauge
reads + 0.48 m at
1436 hrs.

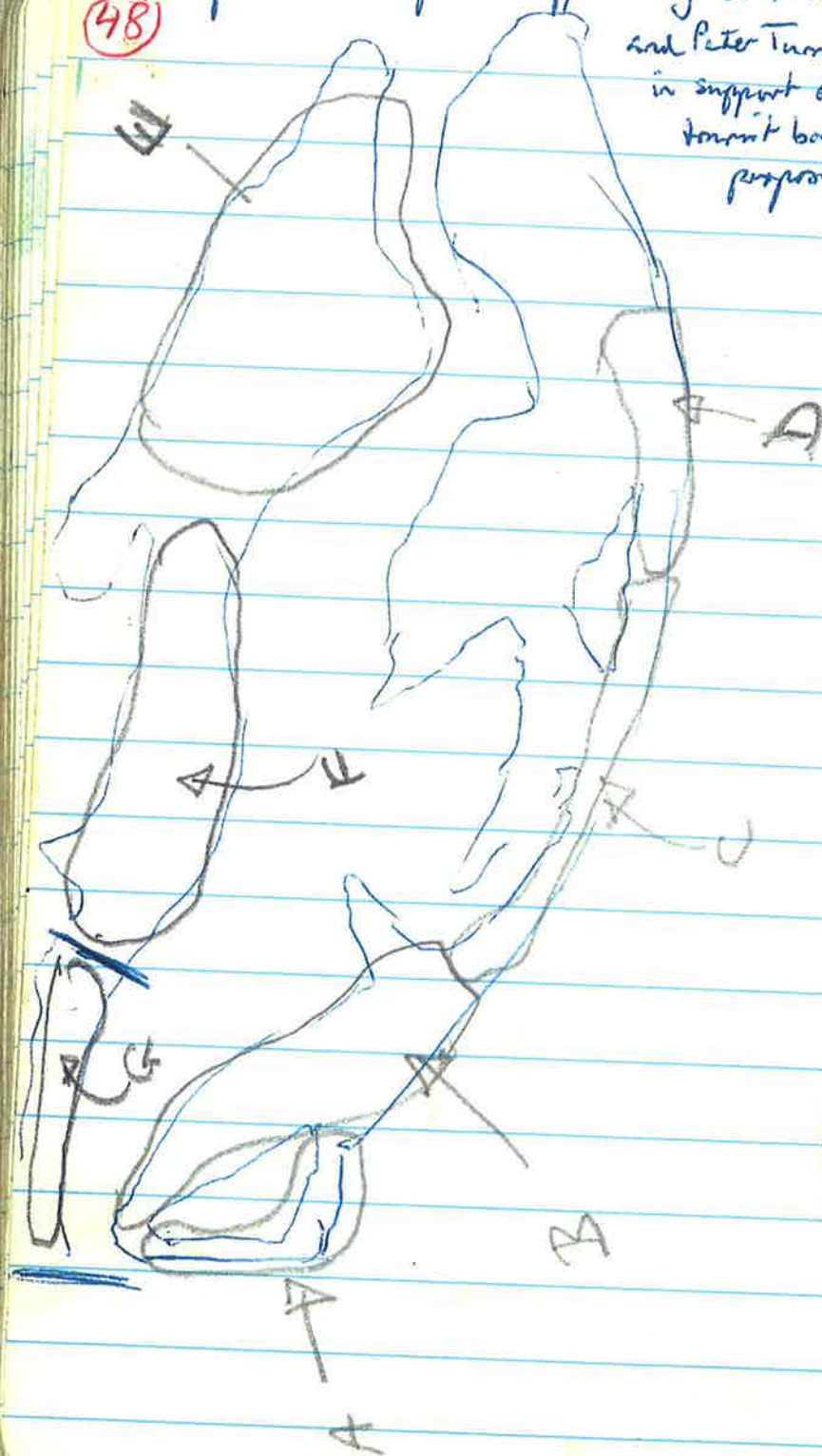
Water flowing out ~~of~~ over 10 boards.
Moderate West wind.

Worming Edge floodgate gauge
reads + 0.0.39 m at
1441 hrs.

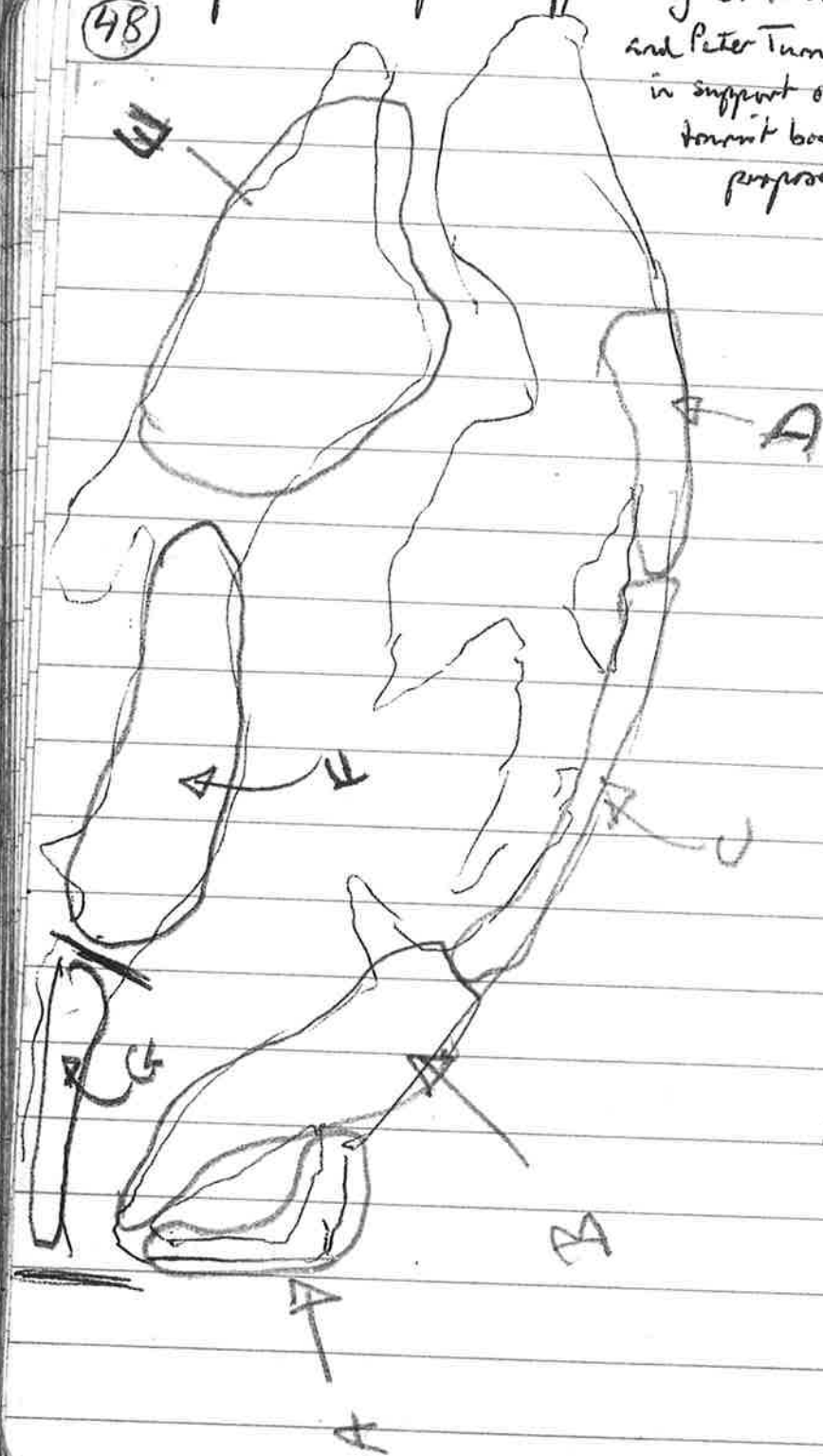
Water flowing out over 2 boards
Moderate West wind.

Melbury Ct flowing West to East
from both sets of ~~Weymouth~~ ^{Weymouth} Rd
culverts at 1646 hrs.

(48)



(48) Map from air photo supplied by B.K. Masters
and Peter Turner
in support of
tourist boat
proposal.



Canoed with Charlie Broadbent
on Vasse Estuary near old Train
Station

Wed 15 Nov 95 (49)

0908 hrs - arrived behind Train Stn.

A
Area
(see map)

1 Cook feeding 3 large chicks

PaBD - ~~1~~ 1 adult with

9 Class III chicks

1 Seared Ibis

1 Little Black Cormorant

1 Swamphen

~~1~~ 1 Cook

1 Great Egret

1 Little Pied Cormorant

B
Area

1 Night Heron

1 LPC

1 Swamphen

Cooks young

2 Sac I.

1 nest under Gaboria (Gabe?)

1 nest of Boobies

1 " " "

} Gabe?

Camped with Charlie Broadbent
on Vasse Estuary near old Train
Station

Wed 15 Nov 95 (49)

0905 hrs - arrived behind Train Stn.

A
Area
(see map)

1 Coot feeding 3 large chicks

PaBD - ~~1~~ 1 adult with

9 Class III chicks

1 Sacred Ibis

1 Little ^{Black} Cormorant

1 Swamphen

~~1 Coot~~ 1 Coot

1 Great Egret

1 Little Pied Cormorant

B
Area

1 Night Heron

1 LPC

1 Swamphen

Coots young

2 Sac I.

1 nest under Gaboria (Grebe) ?

1 nest of Boobies

1 " " "

} Grebe ?

(50)

15/11/95 contd

1 nest with 3 eggs 10 cm above
water level - brown with some

black - in low Mel. caudatus
probably Sturnella (possibly Moorhen)

1 nest in Bolbo. with "kicker"

1 nest high in M. caudatus
(composit?)

1 nest in Bolboscaenus.

1 " " " "

Area C 0950 hrs

GTL

1 egg in water - couldn't reach it

1 Tantuse in water

1 nest (Mel caudatus) low

1 pr GTL (diobrychis dissilis)

1 coat + 2 med - chicks.

1 Pebd

2 Little Pst
1 composit?

15/11/95 ⁽⁵¹⁾ cont

1 lost nest under M. catic.
made of Dolbo. - 6 worm eggs

Area D

1 Great Egret

c 10 Coots

1 coot chick

1 L. toris adelaidensis coll.

5 PaBD

1 SnI

1 Wh. Flycatcher

1 ♂ M. D. D.

+ c 30 PaBD

c 20 G. Pk.

Splendid Fairy-wrens (Malurus splendens splendens)

~~Wrens~~ (♂ all blue & orange)

in other Melaleuca

(52)

15/11/95 Contd

Amur E - 10 20 hrs

c 400 dms

90% Ggol

8% PBD

2% mand

2 Pel

c 50 WBC

c 10 LPe

c 10 Sn I.

1 Yb Spurbill

2 Night Heron

1 Darker -

10 Coot.

3 SGL

1 Willie Wagtail

15/11/95 (53) Contd.

7 ^{dead} nests in trees (prob Little Black Cormorant)

Area F 1036 hrs.

4 Headheads.

2 ^{Hh} ~~Arct~~ Gulls

3 Murre D (20?)

1 Tiger Shrike

1 ♂ Blue billed Duck

Area G

1 ♂ Duck sitting on nest in large Weeping Willow (*Salix babingtonia*)
Also 1 murrelet 1/2 way up this tree.

Water depth in areas A → D

was approx 0.5 m. A bit deeper in areas E + F (need to check properly)

(54)

15/11/85
contd

Dease Estuary floodgate gauge
reads + 0.43 m at 1135
hrs.

- Water level lower on ocean side
 - Water level over 1 board
 - Water also leaking out at fair rate.
 - Water now v. clear. See bottom easily.
-

Fri 24/11/85

Dease Estuary floodgate gauge
reads + 0.34 m ~~at~~ at 5 pm (4.58)

- Water level in estuary below all boards
- Water level lower on ocean side
- slight ~~leakage~~ leakage out
- all flap valves closed

24/11/95 (55) contd.

- 2 Little Black Cormorant feeding on ocean side of flap valves, where water is leaking out.
- moderate $\rightarrow$ strong "W" wind.

Worreny Estuary floodgate gauge reads +0.17m at 1705 hrs.

- water flowing in over one board (just closed flap valve, i.e. leakage).
 - all boards above water level on estuary side
 - water level high on ocean side than estuary side
 - strong W (NW?) wind blowing (cold front rapidly approaching).
-

(56)

Down Est. floodgate gauge
at 0825 on 3/12/95
reads + 0.30 m

- water level below all boards
- " dripping out
- all flap valves closed

Down Est floodgate gauge
~~reads~~ at 0829 hr on 3/12/95
reads + 0.14 m

- water level below all boards
- no flow discernible
- all flap valves closed

Th 8/12/95 (57)

- continues to be a draft up to the meeting.
- Revises the Recommendation to "jet up" (in some form)
- by mid Feb - went over to have received letters of support for flyway - countries in the flyway.

~~as the Director~~

- letters back from UK (Hagley) and NZ. - support
- Philippines have said they will support - letter will come.

Th. 8/12/95 (57)

- continues to be a draft up to the meeting.
- Requires the Reimbursement to "get up" (in some form)
- by mid Feb - went over to have received letters of support for flyway - countries in the flyway.
- ~~42 The Draft~~
- letters back from UK (Hagley) and NZ. - support
- Philippines have said they will support - letter will come.

(58)

8/12/95 Contd.

- (US, EU + ^{Alaska} Fed + Canada)
- Alaska - officer level support
possibly 2 sites for networks.
 - Russia - officer level support
possibly 1 site (Kondakov)
(Russia still v. keen on bilateral)
and this may be a problem
 - South Korea - may become Partner
party at Conference - haven't been
approached re Networks
 - Japan wants to join Australia
as Co "sponsor" (nominator of
the recommendation). Post Koshino
They have 1 suitable site for
networks.
 - Japan's interest is primarily Crane
and Duck + Goose Action Plans (+
site networks) and that is where
they are going to put their money.

(58)

8/12/95 Contd.

- (^{Alaska}
USFWD + Fort Grease)
- Alaska - officer level support
possibly 2 sites for networks
 - Russia - officer level support
possibly 1 site (Kamchatka)
(Russia still v. keen on bilateral)
and this may be a problem
 - South Korea - may become Partner
party at Conference - haven't been
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 - Japan wants to join Australia
as Co "sponsor" (nomination of
the recommendation). Post Kuchino
They have 1 suitable site for
networks.
 - Japan's interest is primarily Crane
and Duck + Geese Action Plans (+
site networks) and that is where
they are going to put their money.

8/12/95 (59) ^{int'l.}

Whereas Australia is putting money into
the Stonebird Plan.

⇒ partnerships to conserve wetlands
- see chart.

- Japan is very interested in the 5
yr Conservation Strategy and Australia
is trying to be seen as equal
partner - but most of Australia's
is into Stonebird Site Networks.

- Japan not been on legal agreement
⇒ been on Strategy.

- Europe Office agreement (signed)
is under Bonn Convention.

- China: official level support - letter
drafted for minister to sign.

- 1-3 sites may get proposed

- Shanghai is the major landfill site
Shanghai

8/12/95 (59)
Contd.

Where Australia is pretty moving into
the Stonebird Plans.

⇒ partnership to conserve wetlands
- see chart.

- Japan is very interested in the 8
yr Conservation Strategy and Australia
is trying to be seen as equal
partner - but most of Australia's
is into Stonebird Site Networks.

- Japan not been on legal agreement
⇒ been on Strategy.

- Europe Africa agreement (signed)
is under Bonn Convention.

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drafted for minister to sign.

- 1-3 sites may get proposed

- Shanghai is the major landfill site
Shanghai

(60)

for SO in Beach and Pudong Bay
but the 2 ~~water~~^{wader} areas in Shanghai
are not Penser linked.

- can certainly add non-Penser
sites, even at the March 96
conference

- Taiwan can't be part of
network because of China.

The sites are to be endorsed
by the national govt

- model ~~also~~^{calls} for "owners/manager"
of the sites to negotiate +
the ~~national~~ national govt to
endorse.

→ Working Group

→ Planning for adoption

(60)

for 80 m Beach and Paelander Bay
but the 2 ~~water~~ ^{wader} areas in Shanghai
are not Ramsar linked.

- can certainly add non-Ramsar
sites, even at the March 96
conference

- Taiwan can't be part of
network because of China.

The sites are to be endorsed
by the network govt

- model ^{calls} ~~also~~ for "owners/managers"
of the sites to nominate +
the ~~network~~ network govt to
endorse.

→ Working Group

→ Plenary for adoption

- at time of ^{tabling} ~~being~~ each country could hold up placard and say we support and propose to ~~be~~ ^{commemorate} these sites.

or media conference on 2nd last

day (know time Oceania Day)

& guaranteed time & place for minutes to announce — this

will be the time of the public launching of the network.

day & time is not yet definite but will be last 2 days — hope it is 26/3/95

- Hong Kong: have letter of support
 - 1 site likely (and only 1 justified)

- at time of ^{tabling} ~~being~~ each
country could hold up placard
and say we support and
propose to
we ~~at~~ nominate these sites.

or media conference on 2nd last
day (know time Oceania Day)
E given best time & place for
minutes to announce — this
will be the time of the public
launching of the network.

✱

day & time is not yet definite
but will be last 2 days —
hope it is 26/3/95

- Hong Kong: have letter of support
- 1 site likely (and only
1 guarantee)

62

- Vietnam - no progress yet
- Philippines: have made public declaration of support and action to put up one site (Ranau)
- Malaysia: considering nominating a structured site for Ranau.
- Japan is possible and this might get up (probably will get up as alternative site at Brokers).
- Indonesia: official level support
- New Guinea: " " "
a trip needed
- N.Z.: letter ~~sent~~ sent have sent letter of support but some regional consultation needed.
2 sites likely to be proposed.
maybe not.

62

- Vietnam - no progress yet
- Philippines: have made public declaration of support and action to put up one site (Ransar)
- Malaysia: considering nominating a shorebird site for Ransar.
- Japan is possible and this might get up (probably will get up as wetlands site at Boscare).
- Indonesia: officer level support
- New Guinea: " " "
- a trip needed
- N.Z.: letter ~~sent~~^{about} ~~to~~^{have} sent letter of support but some regional consultation needed.
- 2 sites likely to be proposed.
- ↑
- maybe not,

(WZ)

- Janet Owen says not sufficient time for consultation on the ground.
- Bangladesh - ~~no~~ response yet
- the proposal is silent on need to consult with locals in deciding whether to nominate a site.
- nominative document could ~~possibly~~ be a photocopy of the Ramsar nominative document + the Directory (for shorebird numbers)
-
- Corner Inlet + Hunter Estuary
(both are Ramsar sites)
- both visited / used by conservation agencies.

(WZ)

- Janet Area says not sufficient time for consultation on the ground.
- Bayleish - ~~no~~ response yet
- the proposal is silent on need to consult with locals in deciding whether to nominate a site.
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-
- Corner Inlet + Hunter Estuary
 (both are Ramsar sites)
- both visited / used by construction agencies.

(64)

- ask Kymel if can go check
with networks (reserve) proposed

- should PD (over) write to
CARM or to Minister
(should send draft to CARM
anyway)

- ANLA + AWS will come to Ruck
to brief Kymel if needed

3-15 Jan away

Days available 21-22 Dec
27-29 Dec

- CARM away. 09 442 0300

21 Dec 9-11 am

This AM - Kymel W this out
12 noon.

(64)

- ask Kmen if can go ahead
with network (reserve) proposal

- should PD (over) write to
CERN or to Minister
(should send draft to CERN
anyway)

- ANL + MDS will come to Paris
to brief Kmen if needed

(3-15 Jan away)

Days available 21-22 Dec
27-29 Dec

- CERN early. 09 4420300

21 Dec 9-11 am

Thurs AM - Kmen W this out
12 noon

- Kenen to send draft before 21/12 meeting.

Ansell 131300

Fit 185

Cabana 4.20

arrive	Adelaide	5.30
leave	"	7.00
arrive	Perth	7.50 pm.

Bamford (WA Kingisley): 09 309 3671

- Kenen to send draft before 21/12 meeting.

Ansell 131300

Flt 185

Cabana 4.20

arrive Adelaide 5.30

leave " 7.00

arrive Perth 7.50 pm.

Bamford (WA Kingsley): 09 309 3671

66

Photo of Police wing by
for Jerry Baker?
(for slides)

Lea Young - Heritage Council
0830 paper.

\$150K / year.

- ~~no~~ no limitation on who
funding can go to (eg EPA for
florida surveys)
- can include state govt agencies
- need to be long term - want
grants 12 months.
- 38 people - reg CHA/CPA
MRP

Ag West, Cons Council, UN's
Museum, individuals (consultants)

- identifying areas of significance
in the natural environment
- (cultural - other religious)
- CAPM: Angus Hyslop Angus H.
Greg H. (suggested to better to expand)
- Discussion Paper - largely done.
- Workshop
- Report of by mid January.
- Steering Committee: Paul Fraser (Chair)
Richard, Peter Stanger, Rachel Stewart,
Irene Collins, Frank Murray -
- ~~Formulation~~ Ian D. Miller, Tony Williams)
- for 3-5 years.

Linda Brewer - AHC Canberra

Register, Cons Council, UN's
Museum, individuals (consultants)

- identifying areas of significance
in the national environment
- (cultural - other religious)
- CAM: Angus Hyslop Angus H.
Greg W (suggested to better to 1995)
- Discussion Paper - largely done.
- Workshop
- Register of by mid January.
- Steering Committee: Paul Fraser (Chair)
Phil Hove, Peter Slange, Rachel Smith,
Brian White, Frank Murray -
- ~~Termination~~ (Ian Fisher, Terry Williams)
- for 3-5 years.

Linda Brewer - AHC Canberra

(68)

Tell Lita - 9/12/95

- Water & River Commission

- Henry Anderson

- water reserves are going to be vested in the utility.

Waterways commission reserves will stay with Water & River Commission

- "Water Corporation" = utility.

- "Office of Water Regulatory Services"

- opinion for resolving apparent overlaps in statements of

- when meet with MRP (David Nunn?)

~~one draft~~

→ Make sketch for Co Dept.

* KMS will talk to Karen
Goss.

(68)

Teff White - 9/12/95

- Water & River Commission

- Henry Anderson

- water reserves are going to be vested in the utility.

Waterways Commission reserves will stay with Water & River Commission

- "Water Corporation" = utility.

- "Office of Water Regulation Services"

- opinion for resolving apparent overlaps in statements of

when meet with MHP (David Nunn?)

one draft

→ Role statement for Dept.

* KPMG will talk to Kevin Ross.

69
9/12/85

Winston Ponder

- Freshwater snails
- Curator of Mal

~~the~~ Aust Museum, Sydney

02 339 8120

- lots of endemic ~~of~~ snails
in arid zone and northern
zones of Australia
- published lots of papers
- strongly recommended by Norm
McKenzie that I talk to
him re Directing sites (caves etc)

Cage those who bet need super high
humidity roots & cave dwellers

⇒ always root in caves with
water pools - feed
along river courses but with

(69)
9/12/95

Winston Ponder

- Freshwater snails
- Curator of Mal

~~the~~ Aust Museum, Sydney

02 339 8120

- lots of endemic & snails
in arid zone and northern
zones of Australia
- published lots of papers
- strongly recommended by Norm
McKenzie that I talk to
him re Directing sites (candidates)

Oagye Horse shoe bats need super high
humidity roosts & cave dwellers

⇒ always roost in caves with
water pools - feed
along river courses but with

70

range across dry country² also.

Pipistrellus hesperus } *abundant*

Have negative site accounts
checked by NMTK for bats.

(70)

range across "dry country" also.

Pipistrellus hesperus } *abundant*

Have mangrove site accounts
checked by NMTK for bats.

Sat 9/12/95

Vesee Loway floodgate gauge
reads + 0.26 m at 0540 hrs.

- water level below all boards
- " " lower on ocean side
- water backing out gently
- all flaps valves closed.

Mon 11/12/95

Vesee Loway floodgate gauge
reads + 0.22 m at

7.40 p.m.

- all flaps closed
- water level below all boards.
- water backing out

Sat 9/12/95

Vesee Lagoon floodgate gauge
reads + 0.26 m at 0540 hrs.

- water level below all boards
- " " lower on ocean side
- water leaking out gently
- all flaps valves closed.

Mon 11/12/95

Vesee Lagoon floodgate gauge
reads + 0.22 m at

7.40 p.m.

- all flaps closed
- water level below all boards.
- water trickling out

(72)

Mon 18 Dec 95

Vase Estuary floodgate gauge
needs +0.21 m at 0826 hrs.

- water level below all boards
- water level higher on ocean side
- water trickling in
- all flap valves closed
- light E wind.

Calibrated Hemmon on 36.0 ppt
- no adjustment required

Used 10 ft punt and 8 hp motor.

Garrett + Choue came with me and
Garrett ably handled the anchor!

(72)

Mon 18 Dec 95

Vase Estuary floodgate gauge
needs +0.21 m at 0826 hrs.

- water level below all boards
- water level higher on ocean side
- water trickling in
- all flap valves closed
- light E wind.

Calibrated Hemmon on 36.0 ppt
- no adjustment required

Used 10 ft punt and 8 hp motor.

Garrett + Cherie came with me and

Garrett ably handled the anchor!

Vasse Estuary

18 Dec 95 cont'd

73

Stn	Time	Depth	Sal	Temp
Floodgate	0904	surface	18.4	
		1.0	27.1	
		2.0	33.9	
	0906	2.1	34.0	
Palm tree	0912	0.1	17.4	
	0913	0.9	22.7	
dead tree pioneer pole palm tree E.S. of Palm	0920	0.1	17.7	
		1.0	22.3	
	0922	1.3	26.2	
beginning of first beach	0929	0.1	17.4	
		1.0	22.0	
② of V+ L.	0930	1.8	25.2	
③ of V+L	0937	0.1	17.2	
		1.0	21.2	
	0940	2.0	23.7	

Vasse Estuary

18 Dec 95 cont'd

(73)

Stn	Time	Depth	Sal	Temp
Floodgate	0904	surface	18.4	
		1.0	27.1	
		2.0	33.9	
	0906	2.1	34.0	
Palm tree	0912	0.1	17.4	
	0913	0.9	22.7	
dead tree power pole palm tree E.S. of Mono	0920	0.1	17.7	
		1.0	22.3	
	0922	1.3	26.2	
beginning of first beach	0929	0.1	17.4	
		1.0	22.0	
(2) of V+ L.	0930	1.8	25.2	
(3) of V+L	0937	0.1	17.2	
		1.0	21.2	
	0940	2.0	23.7	

74 Vase Estuary

18 DEC 95 Contd

0948 hrs

1 GyTL with 7 Class II

drucklings (small)

0949

scattered brood of 6+ Class II

GyTL drucklings

Str	Time	Depth	Sal
(4) of V+L	0951	0.1	12.3
		0.4	17.4
		0.1	15.6
		0.4	17.4
		0.6	18.2
		<u>0.1</u>	12.5
(5) of V+L	1003	0.1	12.4
	1005	0.4	14.1
(6) of V+L	1012	0.1	8.7
		0.2	8.7
		0.4	13.5

Densities

abundant

x met

(74) Vase Estuary

18 DEC 95 Contd

0948 hrs
1 GyTL with 7 Class II
driftlings (small)

0949 scattered brood of 6+ Class II
GyTL driftlings

Str	Time	Depth	Sal
(4) of V+L mid channel	0951	0.1	12.3
		0.4	17.4
		0.1	15.6
		0.4	17.4
		0.6	18.2
		<u>0.1</u>	12.5
(5) of V+L	1003	0.1	12.4
	1005	0.4	14.1
(6) of V+L	1012	0.1	8.7
		0.2	8.7
		0.4	13.5

Demodipis
abundant
+ many

- PaDD with 4 + Class III directly scattered 75

Stn	Time Dep	Depth	Sal	
(7) of V+L	1023	0.1	7.3	
		0.2	7.3	
		0.4	7.7	
		0.6	11.0	
	1028	0.7	12.0	
Stn (8) of V+L	1035	0.1	7.2 7.2	
		0.2	7.2	
		0.4	7.4	
	1037	0.5	7.8	
Stn (9) of V+L Sample taken.	1050	0.1	7.1	
		0.2	7.1	
	1051	0.3	7.1	laged over
(36) of V+L	1108 1108	0.1	7.1	
		0.2	7.1	
		0.4	7.1	
		0.6	7.1	
	1110	0.7	7.1	

PaBD with 4 + Cross III directly scattered

(75)

Stn	Time	Depth	Sal	
(7)	1023	0.1	7.3	
of		0.2	7.3	
U+L		0.4	7.7	
		0.6	11.0	
	1028	0.7	12.0	
Str	1035	0.1	7.2	
(8)		0.2	7.2	
of		0.4	7.4	
U+L				
	1037	0.5	7.8	
Str	1050	0.1	7.1	
(9)		0.2	7.1	
of U+L				
	1051	0.3	7.1	laged over
Sample taken.				
(36) of	1108 1108	0.1	7.1	
U+L		0.2	7.1	
		0.4	7.1	
		0.6	7.1	
	1110	0.7	7.1	

(76)

Vesce Estuary

18 Dec 95 Contd

Stn	Time	Degrad	Sal	
(24) of V+L	1121	0.1	9.4	
	1122	0.2	9.4	legged over
Sample taken				
(23) of V+L	1132	0.1	6.5	
	1133	0.2	6.5	legged over
Sample taken				
(22) of V+L	1208	0.1	5.8	
		0.2	5.8	
(35) of V+L	1221	0.1	5.9	
	1221	0.2	5.9	
Sample taken				
(12) of V+L	1236	0.1	6.2	
	1236	0.2	6.2	
	1237	0.3	6.2	

Vase Estuary

18 Dec 95 77 Cont'd

Sta	Time	Depth	Sal	
Site 12	1445	0.1	5.7	
(15) of V+L	1446	0.2	5.7	
	1446	0.3	5.7	
Site (14) of V+L		0.1	5.6	CARM data date logged site
		0.2	5.6	
	1254	0.3	5.6	
Site (13) of V+L		0.1	5.7	
	1300	0.2	5.7	
Site (11) of V+L	1317	0.1	6.6	
		0.2	6.6	
		0.4	6.6	
Site (10) of V+L	1323	0.1	7.0	
		0.2	7.0	
	1324	0.4	7.0	

(78)

Verser Estuary

18 Dec 85

Returned by boat to
Verser Estuary floodgate ^{and} ~~and~~
loaded boat back on to Toyota
& Runner.

Rechecked Verser Estuary floodgate
gauge - it still read $+0.21$ m
at 1430 hrs.

Drove to office ~~and~~, met Veronique
& she took kids.

Note that this activity profile
effort was done to compare,
in particular, with ~~the~~ profiling
Don Munro did for me
on 17 Dec 1987, and
that effort involved a subsample
of the sites measured (seining)
by me and Veronique earlier

in 1987 (still haven't been able to work out date of that survey)

control				
Stn	Time	Depth	Set	
Food Rd	1656	surface	1.2 ppt	took small bucket sample Water approx 40 cm deep.
Opposite entrance to Williams (next to fire station)	1717 hrs	surface	4.0 ppt	ditto Water approx 20 cm deep
Canaway Rd? (Where old rail line crossed street)	1730	surface	0.8 ppt	ditto depth unknown
at 1735 hrs	reflected	Hemmerlight	36.0 ppt	
Standard	-	it read	35.5 ppt	

Womney Estuary.

Stn	Time	Depth	Sal
Skt end of "island"	1605 hrs	0.1	33.4
		0.2	"
	1608	0.4	33.7
End of fence line opposite Wom B Swamp colony	1635	0.1-0.2 (buckshot)	23.0