


Printed 16/6/2014.

Alan Clarke's Field Notebooks

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(Only pages with notes are numbered)

None of these
have been scanned.

get


1. 1992- 1995 (12-07-1992/19-10-1995)
2. 1995-1996 (06-11-1995/²¹⁻¹¹⁻¹⁹⁹⁶~~20-02-1996~~)* 9/8/2014
3. 1995-1996 (08-11-1996/11-03-1996)*
4. 1996 (12-04-1996/21-11-1996)*
5. 1996-1997 (09-12-1996/06-08-1997)
6. 1997 (13-08-1997/14-10-1997)
7. 1997-1998 (20-10-97/23-10-1998)
8. 1998 (04-05-1998/04-05-1998)
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13. 1999-2000 (29-06-1999/20-01-2000)
14. 2000 (29-03-2000/17-04-2000 and 27-09-2000)
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30. 2009 (11-03-2009/04-08-2009)

*Alan to worked out the pages' order.

9/98 - 1/99

EDGEWATER NEW
3061776
2795



②

TIM LANE

BUSS.

97524586

0419954541

0418945208

Grant P.

ALAN C.

0417096497

CLIVER

015831080

①

BUY FIELD

BOOKS

titelose.

GRIPPOD

RING PENGUIN

ISLAND

SOLE COMPANY

MIK 94826013

TR 94826067

1800 677004

90F559

3

PH CALIBRATION

OLD 7.01 = 7.07 last year's

NEW 7.01 = 7.00

last at temp 17.3 true value at 20.

OLD 10.01 = 10.49

NEW 10.01 = 10.44

at 22.9°C 7.01 = 7.07

Calibration with new buffers

7.01 = 7.07 ↓ 7.01

10.01 = 10.36 ↓ 10.01

Slope -58.5 mV

per pH unit

check 7.01 = 7.01 ✓

4.01 = 4.01

(4)

8/9/98

Sandwich Island

Five SE WIND 5-8 knots
24°C

12 Pelicans on beach at old
site

pelicans feeding being fed
by pro. Gulls

30 pelicans on Breadstun Is.
roosting on sand spit

(5)

8/9/98

Greeny Lagoon

locked gate printing system from
north in to lagoon.

Black duck 6+3

LPC 2+3+1

Pied cyprinodont
to: 4

little egret: 4+4-1+9

in nearby drainage
abandoned 2+2

BWS 12

Great egret 1

Swamp white Heron 1

6

Calibration GIBP's pH meter

7.01 = 6.98 2mV 16.7°C
10.01 = 10.15 slope 58.7₂ mV/16.7°C
4.01 = 3.98 16.9°C

7

15/9/88

4.00 am

5 sondalings

depth 116.84

cal for pH

10.5°C 7.01 = 7.09

11.3°C 10.01 = 10.11

temp 15.3

pH = 8.86

-0.10

8.76

15/9/98

Sandakup

4.72 bottom photo

time 11:00 am

pH ~~4.98~~ 4.98 16.8°C

Bonestah

depth 21.90 m

col pH meter

7.01 = 7.01 19.5°C

10.01 = 10.00 19.5°C

pH = 9.21

GIBBS ROAD

depth 24.30

pH 6.89

possible gauge movement by

Waters and rivers.

rang WR they confirmed no change!

9

Thompson 15/9/98

1.00pm

depth 0.45 m

pH 9.64

12/1/13

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

(10)

depth ~~from~~ Corvencia
7.30 am

(11)

16/9/98
8.15 am Chendabala
depth 0.98

Calibration

7.01 = 7.07 17.6°C
10.01 = 10.07 15.4°C
pH 7.11

Bambun

depth 2.485
pH 8.81

Wanemal 7

depth 1.58
pH 9.95 17.6°C

16/9/98

Legume

1.00 pm

depth 2.46

pH 8.59 20.2°C

Coral

7.01 = 7.01 22.8°C

10.01 = 9.96 23.3°C

3.30 pm YARRA YARRA

depth 0.22

pH 8.13

4.40 pm

Logue

depth 0.34

pH 8.54 @ 23.3°C

18.8.11

18.8.11

Ganga 17/9/98

depth 1.51

pH 8.91 @ 16.7

CRAC14SR8

depth 1.17

pH 7.55 @ 17.3°C

HINDS

depth 0.68

Col

7.01 = 7.03 @ 18.4°C

10.01 = 10.02 @ 18.9°C

pH 7.80 @ 18.9

17/9/96

NIINAN

depth 1.33

pH 8.32 @ 18.3

Nahyormoring 2.50pm

depth 0.67

pH 9.82

Avanying 4.35 pm

depth 0.24

pH 8.00 @ 19.5

MILORS

depth 0.97

pH 8.14

(51)

7:00 pm Beverly 17/9/98

depth 4.69

pH 8.97 @ 17.0°C

FOR 10/12

(16)

0.85 ⁺	
0.615	

.235	
378	
115	

263	

adjusted gages

(17)

Deborderny 18/9/98

8.30am

depth 0.48
pH 7.2 @ 8.6

11.45 Parkeyming

depth 1.43
pH 8.04 @ 16.0°C

Flafstaff 12.15
depth 0.84
pH 8.47 @ 15.1°C

Mortinup
depth 1.11
pH 7.86 @ 15.3°C

(18)

18/9/98

West Anthon River 2:00 pm

depth 1.02

pH 7.68 @ 16.6°C

Taunemung 2:35 pm

depth 3.27

pH 8.46

Col

7.01 = 7.09 @ 14.2°C

10.01 = 10.10 @ 14.6°C

Banyup 3:50 pm

depth 0.18

pH 7.70

M

(18)

19/9/98

depth 0.20

pH 6.30 @ 13.3°C

Flavour

depth 0.93

pH 5.93 17.4°C

Clifton

depth 4.21 12.35

pH 8.31

cal. 7.01 = 7.07 @ 16.4 ↓ ⇒ 7.24

10.01 = 10.02

NINE MILK

depth 0.65

pH 6.67 @ 18.2°C

||

(19)

19/9/98

10.30 am

depth 0.20

pH 6.30 @ 13.3°C

Flavour

depth 0.93

pH 5.93 17.4°C

Clifton

12.35

depth 4.21

pH 8.31

cal. 7.01 = 7.07 @ 16.4 ↓ ⇒ 7.24

10.01 = 10.02

NINE MILK

depth 0.65

pH 6.67 @ 18.2°C

||

(20)

19/9/98

McLARTY 3.00m
depth 0.83

1m depth gannet no sample
left on plate ✓?*

pH 9.64 @ 19.2°C

(21)

MURRAY BANKS
PIRENEAN ISLAND.

RANDY CHAPMAN 28 98381149

P.O. BOX 264
Ramsbury W.A. 6346

check structure

Consuming gauge water nearly 0.6
low peg 2.015 m ^{change from 1.6}

peg near gas structure
purvey mark

high peg 1.81 to top

MIKE SAUZIER 97574400
→ surveyor.

22

1/10/98

BUS 220

AHD 1.449

THUR 5/11/98 BUSSELTON
BUTTER FACTORY GAUGE

(23)

Boundary Island 2/10/98

no Pelicans

Booby Island

no Pelicans

Penguin Island

40 adults

25 out adults ranging
in age from 8 weeks to
4 weeks 1 x 3-3 week
old chick.

20 adults sit on nests
did not move closer for
fear of many birds off
colony.

probable will fledging birds
and access to the water.
monitors in 2 weeks time.

Susan Harvey 12/10/98

began 9:30 from

hopper bridge located to

eastward no mammals

NNW 10-ants

line 20°C

located along north shore clockwise

(4 points just south of location

Bay #161 in Austin Bay

(25)

(26)

4
165-

6 + 1d b

42-

41 1/2 1

30 + 4

16 + 1/2

34 1/2

90

2 + 3

2 + 4

2

~~100~~ 100

550 + 2

20

58

AUSTIN 6-
100

550 POINTS BIRCH
+ school

20 NORTON

58 PULP

1125 day

23

logos 2

36.8

Line
N 1/2 20°

(27)

Phone
note book

dry cloths, towel
drink water
Spood.

Spectacles
telescope tripod
paddle

beanie
opore key

(28)

Point Grey to Herron Pt

14/10/98

10:00 am

WNN wind 10-12 knots

20°C fine

13 40 8+6 LDC 6

20+2 Puff Cormorant

3+7+2 Black duck

4+6 teal

6 Spalding

6 greenshank

10 pelican

5 little black cormorant

1 WFH

Amie W. Davis

(29)

South of strong post
2+4+6 LPE

1 WFH

5 Caspian tern
pelican 2

native reserve open 12:30 am

lunch

start 1:15 pm

great egret

5+31 RNS 15+50+150

3+5 RCP +5

2+2 obelisk. +10

(Caspian tern
3 little egret.

finish 3:40 pm

30
90 mile beach. 18/10/98
7.40 am 0-5 km

st Group along beach

RCP 1+5+2 (8) 100

G. sand 2+15+82
RNS 1

Pied Oyster Catcher 2
whiskered T. 1

Bar tailed G. 2+20
grey plover 2
Ruddy turn stone 2

16/10 - 2/11

(31)

1st group

350

tooth 40 + 30

under sand. 5

Bar Gradient 330

tooth 10

P. golden Plover 1

grey plover 3+2

G. Knot 10

R. Knot 1

washed terns 3

brown washed 9

G. sand 80

RCP 2+6

(32)

2nd group

RCP 2+4+3+1+3+1 (15)

Bar tailed G. ~~25~~ 25 60 50

oriental Plover 1

(110) G. sand 80+7 | ~~10~~ 10+5

tooth 2

RNS 20+5

tooth 10+10+1

Grey Plover 2+1+1

G. Knot 20

RNS 20+10

coarse sandpiper 1

turn stone 1

washed 5. 4

gull. killed 5.4

coarpsian 1

along beach.
 oriented plus 36
 G. sand 20
 uncler sand. 15+6
 Box tailed G. 3
 totall 15
 R. Knot 2+12
 G. Knot 1
 Ruddy turn stone 1
 total 6
 RNS 2

34

3RD group

3 Km

Grey plover 4+1+1 (6)

3+15+5 2+RCP 1+6+7+1+10

G. sand 10+50+1 (60)

~~470~~ Bar tailed G. 150+320

grey plover 1

~~220~~ oriental 3 60-5+80+70

X umlen pond 5+20+40 (65)

greenbank 49+12

G. sand 40+50+50 (140)

RNS 50+12 (62)

X gull billed 13+26 (40)

X Caspian T. 2+2

X taller 50'

eastern curlew 3

sharp tailed sand. 1

tosh 50

whiskered 12+

Red Knot 250

common tern 1

(50)

G Knot 5



low tail G. 100

greenheads 20

G. sand 30

RNS 10

carbon sand 10

RCP 10

5 Km 8-50am

5 Km - 10 Km

9:00 am

18/10

(36)

pondering

RCP 2+6

Pied Oyster catcher 1

RNS 4+8

G. Sand. 3

Oriental P. 1+3+

Ruddy Turn Stone 1

[260]

Box tail G. 50

Oriental 50

G. Knot 10

turn stone 1

G. sand 60

RNS 30

RCP 30

teal 10

tattler 20

water sand. 10

whiskered T. 1

common T. 5

turnstone 1

crested T. 1

G. Knot 1

Oriental

[60]

Oriental 10

RNS 30

RCP 10

G. sand 10

tattler 3

(37)

(38)

6.8 Km

great egret 1
little egret 1

RCP 15+1

tattler 12

trud 3

~~G. sand~~

Br. tailed G. 50

grey phalar 30

G. Knot 20+50

tattler 8+12

trud 1

G. sand 40

(39)

G. sand 6

RNS 2

champtab 1+1

Oriental 21

tattler 30

trud 20

gold billed T. 45

subitend T. 2

avertax T. 1

greenbank 7

[220]

Br. Cuckoo 50

G. Knot 160

grey phalar 7

Wagtail T. 1

(40)

G. sand 3
~~Bar tailed G.~~
grey plover 7
 REP 1 SW. 2

50

30 low tailed

G. sand 10

~~lark 10~~

70

lark 20

RNS 20

lark 5

orientals 25

(41)

300

50 low tailed G.

150 G. Knot

100 G. sand

160

low tailed G. 120

G. sand 20

grey plover 5

G. Knot 35

5000

- R. Knot 4000
- easton Curlew 7+2
- bar tails G. 500
- oriental Plover 260
- G. Knot 400
- green sand 90
- common T. 2+2
- tattler 100
- trails 100
- little T. 1
- Arctic dowitcher 1
- gull billed T. 45
- G. sand 200
- RNS 30
- RCP 10
- broad bill sandpiper 1
- corwin T. 1



oriental 30

long tailed G. 40

10000 3 large flocks

sharp tail sand. 10

greenish 200 + 50

marsh sand paper 1

oriental 300 + 200 + 500

RNS 30 + 200

umber sand paper 5 + 35 + 100

Towls ? 300

tattlers ? 500

G. ponds ? 1000

greenish 80

great billed T 20

caspian T 2

2 Black tailed Godwits

7000

(45)

3000

Bowtail 2000

R Knif 1000
Gr Knif 1500
Bowtail 500

Red k 1000

Gray k 1000

024

005

1000

'Cite 100
GSP 500
Temple 100
Tubby 100
Shink 100
RCP 50
Curl Jaw ~~100~~ 50

10 Km 10:30 PM

(44)

416

BC ADOLPH'S CROSS

19 53 10

120 17 15

BC BROOKS CK

19 55 30

120 04 30

CAPM

cape Muriety

19 02 30

121 31 05

KM50

50 Km 19 32' 40"

~~121 06' 20"~~

CAPK

cape Kuchardson

19 07 00

119 46 00

417

CAMP

19 12 12

121 26 17

LM 39

40 Km

19 28 49

121 11 34

LM 40

40 Km

~~19 12 12~~

~~121 26 17~~

LM 41

45 Km

LM 43

20 Km

~~19 12 12~~

19 21 07

~~121 16 12~~

121 19 27

KM10

10 Km

19 17 20"

121 22' 40"

KM30

30 Km

19 25' 15"

121 15' 22"

24/10/98

caught 10 *Oreochromis* *platypinnis*
etc etc water data
at 9 km

I worked in RNS a few
worked with adrian on
? w.t. adrian

caught 2 x 2 *trout*

5

25/10/98

Accom. air con. broome

packed equip out whole
trailer from 80 miles beach
to broome.

one stud from CBLM

Podex & swept off white
remaining studs for trailer in the
morning

vehicle lane two mgs

on trip back from broome
trailer taken off site emptied
and driven back to tropical
motors.

unpacked equipment at BBO

cooking dinner

(50)

carbon sandpiper
large sand plover
etc refer to catch
swathed along beach
April 4 30pm

(51)

26/10/98

accm. from aircon. note

tropical motors fleet cards.

tyl laundry

laundry \$6.00

recy. for little lumber or

golf course 90 all up

to wash typing

pick up refrig. trailer

spoke with com from fleet

care to authorize repairs.

mailed post cards to key and
mom.

Canon netted 273 marks

140 war tanks

9 did 13P% obage

RNS we did 8

shots brewed looked ready

(52)

27/10/98

set net at sandy blow
out 1.5 Km south of B30

made flags using hot water
netting needles and paper, used
galvanised nail clippers to cut ends.

fixed net 390 birds ^{mostly} 1 Goshawk
and knots + others
ringed 25 knots

more flag making

(53)

(54)

checked out early course
lots of birds
Red winged parrot
white brow babbler
M. Lapwing
Auntie, WD Shrike
Shrike needed this

little census in small flocks
up to 70 1074 birds
150 ~~up~~ all up
est.

(55)

28/10/98

went in to town to pick up
CALM which from topical motors
just after leaving accelerator
was sticking, became lethargic.
Slight rattle with speed.
brought charcoal and new pole.

lunch.

590 birds spotted and
Kare on logging team

began feeling ill.

(95)

41807
34057
7753 Km

(57)

5/11/98

11.50

two peg level

B	F	1.580	1.580
1.690	1.528		
1.580	1.580		
<hr/>			
3.27	3.281		

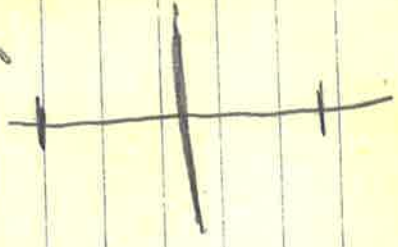
3	686	1.753	1.690
580	528		
3	162	1.945	
	435	1.510	
	2.560		
	<hr/>		
	1.295	435	
	<hr/>		
	1.265	1.295	
	773	1.644	
	<hr/>		
	452	1.51	
	<hr/>		
	731		

(58)

B	F	0.435	
BM220 1.945	7.510		
1.452	1.773		0.321
1.795	1.644	0.151	
1.295	2.560	angle line	1.1.265
		0.586	1.586
			<hr/>
			586
			<hr/>
			1.000

Temp BM angle line near bridge

2.537	287
	2.527



59

2 Atlas cont Kendall

053006 plus rept.

7/12/98 Peel Estuary Swan count

32°C Water 1 mile or 10 knots 12
gone

no swans in Greeng Lagoon
Swans started thing 2 way
away North bay
13

400 in east of point Ansty by
Robert bay swans began
thickly 400 + 15 in release bay



Release Bay on shore 30

Finish 1.00pm 448

(61)

27
 115
 143
 92
 24
 135
 61
570



(62)

Harvey Estuary

9/12/98

SW wind 10-15 28°C

fine

(115)

70%

Ptarm x 3+1

45 LPLC x 7+6+15+8+4+2+2+1

sparrowhawk x 2

chickadee x 2

G. Jay x 2

chatter x 3

Richard gull 3+36 39

Caspian tern 1

Pied Cormorant 2+4+8+2 16

tern black from eggs back to nest

orange yellow bill olive black

legs medium size

WFH ↓

* Singing Malabar dead or dying

(61)

intermediate egret

REC jethy 235

tracking thin salters bill gape

1 pure eye neck hole

2 shorter neck

common sandpiper 1+1 2

Little pied L. 8+3+6+3+2 24

Pied Cormorant 1+2+*2 5

WF-bd 1

gray teal 5+2+1+9+2 19

great egret 1+1 2

crested tern

silver gull 3

black duck 2

Break ramp LUNCH 11:50-

12:30

LPC 3+7+8 18

great egret 1

WFH 2 + 1 + 1 4

little egret 2

intermediate egret 1 tail feathers

black duck 1

common sandpiper 1

oiler gull 45

pid. cormorant 1+3

common sandpiper 2

pelican

paint before
Demerville wt

oiler gull

little pid. cormorant 3+5+5 13

duck 1

little egret 2

pid. cormorant 1

WFH 2+1

siber. gull 52

pelican 2

Q

(65)

silver gull 13+1
little egret 1
common sandpiper 1
WFH 2+1
LPC 1
greenstork 1
Pied C. 3 (24) (2)

Dawsonville Lake 1:19 pm
western tern 40
little black 2
LPC 5
Pied C. 1
silver gull 30
black duck 10
gray plauer 1+1
Red capped plauer 1
greenstork 1

(66)

little tern 19+2

br-tailed gnatcatcher 5

white-throated sparrow 65

vesper sparrow 12+150V

common sparrow

western T 5

LPC 20+2

LB 3

phoebe 6+3

WFH 1+2

RCP 1

Spind at Wood Point

2:00pm

(143)

(67)

10/12/98

overcast SW wind 15/knots

10:00 am humid 24°C

Palau bay car park waste.
to Point Grey.

7 phalarope 3+2+2

2 Black Duck 1+1

165 L.P.C. 4+1+13+4+4+12+120+7

13 P.C. 3+2+2+4

3 Teal 2+1

1 Crested tern 1

2 W.F.H. 1+1

1 great egret 1

6 pelican 1+3+2

4 Cassin's tern 2+2

12 return gull 2+10

Point Grey 10:45 am

107 LPE 75 + 20 + 6 + 6

2 death 2

82 Red C. 80 + 2

9 pelican 8 + 1
death 4

1 Scapian F. 1

4 ~~Scapian~~ 1 + 3*

1 death 1

1 ~~great tern~~ 1

1 Scapian tern 1

3 * grey plover 3

5 * Sooty gull 5

5 * pelican 5

1 * greenbank 1

2 * tot H 2

1 ~~green bank~~ 1

1 tot H 1

5 ~~great tern~~ 2 death 3

69

Lunch NR at 12:00

rest at 12:40.

little spire 2

great C. 2

purple gull 2

Carpenter 2

WFH 3

little spire 2

G. spire 1

purple 5

(70)

river gum
drill bit masonry
for slabs.

Handyman Home bolts for
slabs

Throat gaggle

Vacuum cleaner bags

VOLTA

\$ fuel

(71)

5/1/99 11:00
SW mud 125°C

Penguin Island

55 Pelicans

5 large albatross in full

breeding plumage

20 birds out on ground

20 subadults

15 starting to rear young.

adults feeding young.

72

5/1/99

Greeny lagoon 2:30 p
June 28th SW = 15 knots

BWS 400

Redhead 40

Leach 400

Sharp-tailed sandpiper 800

Greenhead 4

Avocet 1

Black duck 1

Penguin Island

22/1/99 9:30am

SE wind 5-10 kts 29°C

80 Pelicans Sighted

2+ yearlings out-adults flying
 very little activity in colony
 40 had very strong breeding
 plumage

eggs seen only four
 Pelicans about ship. 1 egg each
 approx 30+ nests

Mandarin east
 shore of Penguin Island
 30 Pelicans on surrounding island
 15 adult (juv) of banding
 feeding in breeding activity

HT

SN 604167120 15hp NS

8hp 604202584

HT

75

27/1/99

Myrae Cuparoline 6:00am
Vasse floodgates 9:05am

Line Hat 33, little wind

Wommesup ~~to~~ site
Estuary Vase Drive.

SECTION F west arm.
~~tree~~

Dumphy 4

~~Greenbank 1~~

SECTION F

TRAC 184

WFH 14

Greenbank ~~2~~ 33

Common Sandpiper 1

W BWS 59

34

(76)

Buff banded rail

rail ~~to~~ no side bands
eye lower
white

black D 32

black 36

Intermediate eye 1

black LBC 66

Pink LBC 12

LPC 16

green eye 2+4+7

pl pelican 18

yellow green 5

little eye 1

white ibis 1

Silver gull 730

undoubtedly small tern 38

crest tern with little tail ~~with~~ ~~with~~

BWS 4

greenback 2 WFB

WFB 40

finish 11-40

(77)

section D and other sample

was dry

SECTION B 11-52

- blue gull 8

- black 96-150 20

- parents 12 150

- more 26 226

BWS 129 + 10 (140)

- great eye 2-1+1 7

- greenback 2

- unidentified ducks 100

black 70

~~black~~

~~black~~

- pelican 1

- open bill 6

- WFB 2

- streamlined ibis 1

(78)

~~black 150~~

- total black 140
90% 20%

- silver gull 100

- down 37

M green egret (1) 100 small 1220

Take 2 no 1/2 SECTOR B (W)

12:53 pm

- green egret 3

- black 200

- total 8

- black duck 4

- BWS 140 + 150

- unidentified duck 550 + 300

- WFTJ 2+7

green duck 2

(79)

POND

near geograph pond
10-8/2/07

Ward Duck 53

Ducks 1+1

WPC 2+4

(19) down 1+5 out adults together +13

- Adult Hiss 1

RCR 20

UNIDENTIFIED small water white down

- silver gull 600

- green duck 9+5

unidentified small water 60 POINT

- WFTJ 19

- ~~WFTJ~~ total 270

- BWS ~~200~~ 250

- green duck 42

- little egret 1

- total black duck 214

90% 10%

A 1505

DON MUNIZO'S
WORKS DIARIES.

~~teal~~ teal 70-

cheatmate tree 1

BWS 47-

~~greenish~~ 5-

purple 3

~~Red~~

purple 8

~~white~~

RCP 24

greenish 30

WVH 35

shaded 44

175

Take of

B and + to A

Piel Cove 4:00 pm

118 60 58

13 teal + 12 + 9 + 24

root 2 + 2 4 6

purple swamp bank + 3 + 2

wood duck 2

purple more for 2

~~black~~ black duck 5

pink ears 2 + 6 + 7 10

great egret 103

yellow bill 3 6

great egret 5 6

LBC 2

BWS 9

shadler 8

LP 3

Robin 1

swan 1
teal 60
spoonbill 100
pink eard 5
Darter 1

28/1/99

5 pectoral Central
10:05

RNS 50 + 30 (70)

sharp tailed sandpiper 70 + 180 (250)

gwendolyn 10 + 10 * 5 (120)

350 → 70 held duck 28 + 80 58 (-29) 135

466 ? black duck 2 + 3

115 → 80
5/1/97 * 8
58
175
1090

pebbles 2
RCP HO + 40

crested tern 1 + 5 (130)

BWS 55 + 30 + 40

silver gull 160 + 20 + 20 (200)

curlew sandpiper 10

Teal 80 + 66 150

SWAN 32

LPC 28

swan 460 + 300 (760)

unidentified woodcock 230
swampy waterbirds 20 RNS

5c
central 5 section

took on egg shore near lumber
shelduck from egg shore

~~shelduck~~ 400 76+30

BWS 150

brown gull
took 430

black duck 6

greenback 6+2

sharp tail 6

WFH 12+5+2+4 (23)

(200) return gull 76 55+50

divers 20

LPC 10

unidentified night hawk 2

white ibis 1

BWS 20 (94+90)

LPC 10+10

J section (WST)

~~I section~~

gray phoebe 1

swan 1

RCP 70

spoonbill 1

340 return gull 320+20

76 BWS 56+10+10 (80)

greenback 1+2+8+3 (14)

PLONR 15 GOLDEN

und. PLONR 15 GOLDEN PLONR

strong eye brown

standing tall

colored breast

dark on the bill

striped tail

INFN 13+2 (15)

RNS 100

RCP 200

shelduck 5

STATION I

- greenhead 15 + 2 ①
- other gulls 50
- WFH 12
- white ibis 2
- redhead 6
- 105 LBC 19 50 + 10 + 75
- 65 LPC 19 + 10 30 + 5
- ⑥3 great egret 54 + 801
- ③00 pelican 40 110 124 + 708
- ④2 black duck 3 + 24 + 15
- greenhead 2
- osprey 9 + 2 + 3
- greenhead 21
- BWS 60
- WFH 2 + 28 + 14
- teal 20
- ibis 2 + 1
- Avocet 1 + 2

58

- marsh duck 5
- = teal 10 + 5
- little egret 4
- spoonbill 1
- osprey 12
- black duck 32
- pied bismarck

28/1/99
NAIL is 2-121 AHD

1835

3004

2.121
1.169
952 AHD
Top of entrance of

3004
1835
1.169

2.121
1.169
952

NAIL 1835

1976 top of 2nd gauge entrance with
1.960 AHD - 0.151

NAIL 1835

2.140 ~~1835~~ top of shallow gauge.
0.930 ocean level
3.070 1.235 0.886 AHD

NAIL 1835

2040 top of deep gauge
0.114
2040 length towards ocean

2040
1835
205

2.121
205
1.916 AHD

61
2070
1835
1.235

2.121
1.235
1.896

0.094

(90)

Wormerup gates

LP WONA 2 AHD 2.478

1.55 RUN

LP2 1119

nr gauge 2.497

exp. to com. g.

2.497 wormerup g.

1119

1119 LP2

2.641

downstream

2681

1119

1522

2.478

1119

1378

2.478

1522

0.956 AHD

414 mm from top

2.478

1.378

1.100

ggy - 16cm

(91)

78/1/99

1119

2091 WANA g.

2091

1119

0.972 ~~1119~~ to ~~1119~~

2.478

972

1506

19. from to 1.5 mark

13 too high WANA gauge

off site from top of board to 1.5 mark = 19 mm

(92)

4/2/99

every lagoon

44 banded stilts

70 shorebird

5 WPH

adults also 2

other gulls 50

tot 4

greenish 4x2

BWS 750

RCP 4

black tailed godwit

Boundary island 4/2/99

80 penguins on beach

on east side in front of old colony

note: 20 birds fed heavy breeding

plumage with crimson patches

(93)

Penguin Island 4/2/99

25

1000 adults

17-18 chicks $\frac{2}{3}$ near adults

downy, black faces

95

Bach

dux agerantus variegata

erica major variegata

94

myoporum purpurea

leptospermum little lam.

5-10

0-5

Bar-tailed G. 900

1173

G. sand 452

540

G. plover 50

18

oriental plover 900

257

RCP 76

90

97

4:65 Umbrella plant

1x *Jatropha gossypifolia* Nam

Brook next fern in hand leaf

Cyathochaeta var. 2

4:50 *Agave* plant 1 string leaf

Malay Slip *Orchid*

5:00 *Jatropha* / Kimberly River

Plectranthus ~~reticulatus~~

3:00 *Dichondra repens* x 5

Jatropha star-like variegated

98

Cyathochaeta violet

9:50 *Jatropha* *dracena marginata* 2m

2:45 wood violet x 4

Flouring in shade

? *Gordonia* *radicans*
small garden white flower

? *Jatropha*