DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP 001

Water Chemistry

Site Code R30YR **Site name** Bodallin Evap Basin **Date** 18/9/06

Personnel BDS + MDS

Max depth of wetland 0.87 m

Max depth measured at depth gauge

pH		3.57	[H^+]	
Temperature		18.8	(°C)	
Conductivity		76.2 mS/m ~~(µS/cm)~~	59.7 ppt	~~ppm~~
DO	(TOP)	104	(%)	— ppM
	(BOTTOM)	102	(%)	— ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 550 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	
Benthic sample - replicate No $MgCO_3$	☒	No benthic mats present

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP 001

Habitat

Site Code R30YR **Site name** Badallin Evap Basin **Date** 18/9/06

Personnel BDS + MDS

Site details Evaporation pond, very atypical site, not a natural wetland, surrounded by pasture

Photo 1 bearing (facing wetland) roughly west **Fence dropper placed?** ~~YES~~/NO
Location —

Photo 2 bearing (facing away from wetland) roughly east
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat	1	—	**Water level 1** —
May need up to 10 quadrats in	2	—	**Water level 2** —
Sparse macrophyte	3	—	**Water level 3** —
	4	—	**Water level 4** —
	5	—	**Water level 5** —

Macrophyte sheet numbers — No macrophyte present

	Check (✓)	
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒	No macrophyte present
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒	
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑	
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑	
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑	
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑	

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species	0	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Water Chemistry

ABP002

Site Code R25YR **Site name** Koorda-Bullfinch Rd **Date** 19-09-06

Personnel BOS & MDS

Max depth of wetland 25 cm

Max depth measured at ~30m off shore, uniform depth across entire wetland

pH		3.60	[H^+]	
Temperature		13.3	(°C)	
Conductivity		17.99 mScm-1 ~~(uS cm-1)~~	11.7 ppt ~~ppt~~	
DO	**(TOP)**	81.5	(%)	— ppM
	(BOTTOM)	74.5	(%)	— ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
5 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
50 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 550 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	No benthic mats present
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABP #02

Site Code R25YR **Site name** Koorda - Bullfinch Rd **Date** 19-09-06

Personnel BDS + MDS

Site details Large, flat wetland, substrate uniform sand over clay throughout, no habitat other than bare substrate

Photo 1 bearing (facing wetland) —

Fence dropper placed? YES/NO
Location @ GPS reading, next to shrub

Photo 2 bearing (facing away from wetland) —
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat	1	—	**Water level 1** —
May need up to 10 quadrats in	2	—	**Water level 2** —
Sparse macrophyte	3	—	**Water level 3** —
	4	—	**Water level 4** —
	5	—	**Water level 5** —

Macrophyte sheet numbers NO MACROPHYTE

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒ NO MACROPHYTE
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒ NO MACROPHYTE
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP 003

Water Chemistry

Site Code R22YR **Site name** Gordon Rd d/s Elachbutting Drain **Date** 19-09-06

Personnel BDS + MOS

Max depth of wetland 30cm

Max depth measured at ~50m from water's edge (~100m from fence/dipper) found; centre of wetland; depth uniform throughout

pH		3.11 [H^+]	
Temperature		20.9 (°C)	
Conductivity		9.61 mS cm^{-1} ~~(mS cm)~~	6.1 ppt ~~ppt~~
DO	(TOP)	97.6 (%)	~ ppM
	(BOTTOM)	95.2 (%)	~ ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
0 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 600 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	No benthic mats
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABP003

Site Code R22YR **Site name** Curtain Rd d/s Ellenbrook Drain **Date** 19-09-06

Personnel BOS + MOS

Site details Shallow, flat lake, numerous dead trees in wetland, steep artificial bank and deep drain surrounding wetland

Photo 1 bearing (facing wetland) –

Fence dropper placed? YES/~~NO~~
Location 44m from road, next to tree stump

Photo 2 bearing (facing away from wetland) –
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat 1 –
May need up to 10 quadrats in 2 –
Sparse macrophyte 3 –
4 –
5 –

Water level 1 –
Water level 2 –
Water level 3 –
Water level 4 –
Water level 5 –

Macrophyte sheet numbers NO MACROPHYTES

	Check (✓)	
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒	NO MACROPHYTE
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒	
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑	
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑	
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑	
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑	

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

. DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Water Chemistry

ABP004

Site Code R19YR **Site name** CORNISH ROAD **Date** 19-09-06

Personnel BDS & MDS

Max depth of wetland 30 cm

Max depth measured at ~ 100m TOWARDS CENTRE OF LAKE FROM 'DROPPER'.

pH		3.78	[H^+]	
Temperature		23.9	(°C)	
Conductivity		5410	(µS cm^{-1})	3.3 ppMT
DO	(TOP)	105	(%)	ppM
	(BOTTOM)	103.8	(%)	ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
; mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
o mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 550 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	
Benthic sample - replicate No $MgCO_3$	☒	NO BENTHIC MIT.

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP 004

Habitat

Site Code RIAYR **Site name** Cornish Rd d/s playa d/s Lake Brown **Date** 19/9/06

Personnel BDS + MDS

Site details Shallow, flat bottom, no fringing veg, scrub + dead trees surround wetland, uniform Gard over clay substrate throughout, occasional dead log in wetland

Photo 1 bearing (facing wetland) — **Fence dropper placed?** YES/~~NO~~
Location 100m @ 254° from car

Photo 2 bearing (facing away from wetland) —
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat	**1**	—	**Water level 1** —
May need up to 10 quadrats in	**2**	—	**Water level 2** —
Sparse macrophyte	**3**	—	**Water level 3** —
	4	—	**Water level 4** —
	5	—	**Water level 5** —

Macrophyte sheet numbers NO MACROPHYTE

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒ NO MACROPHYTE
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP005

Water Chemistry

Site Code R18YR **Site name** Purdy Rd Playa **Date** 19-09-06

Personnel BDS & MDS

Max depth of wetland 12cm

Max depth measured at ~ 100m from fence dropper, towards centre of lake

pH		3.36 [H^+]	
Temperature		13.9 (°C)	
Conductivity		209 $mScm^{-1}$ ~~(µS cm⁻¹)~~	OUT OF RANGE ppM
DO	(TOP)	23.1 (%)	2.1 mgL^{-1} ~~ppM~~
	(BOTTOM)	23.1 (%)	2.1 mgL^{-1} ~~ppM~~

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
) mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
0 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 550 mL Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	NO BENTHIC MATS
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABPOOS

Site Code RIBYR **Site name** PURDY RD PLAYA **Date** 20-09-06

Personnel MDS & BDS

Site details SMALL SALINE WETLAND & NARROW RIPARIAN VEG SURROUNDED BY CROP ON 80% OF SIDES, REMNANT VEG OTHER 20%. SHALLOW; NO HABITAT DIVERSITY; SAND OVER ORGANICS AND CLAY.

Photo 1 bearing (facing wetland) -

Photo 2 bearing (facing away from wetland) -
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Fence dropper placed? (YES)/NO
Location ADJ TO FENCE LINE IN RIPARIAN VEG (ODEP) ~15 FROM TRACK.

12m @ 10° from car to dropper.

Macrophyte height at quadrat 1 -
May need up to 10 quadrats in 2 -
Sparse macrophyte 3 -
4 -
5 -

Water level 1
Water level 2
Water level 3
Water level 4
Water level 5

Macrophyte sheet numbers NO MACROPHYTE

	Check (✓)	
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒	NO MACROPHYTE
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒	
Invertebrate 250 µm sample) m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑	
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑	
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑	
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑	

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

ABP006

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Water Chemistry

Site Code R17YR **Site name** Doodlakine - Kumminoppin Rd **Date** 20-9-06

Personnel BDS + MDS

Max depth of wetland 20cm

Max depth measured at 200m from fence dropper towards centre of wetland

pH		3.62	[H^+]	
Temperature		15.8	(°C)	
Conductivity		66.7 mScm^{-1} ~~(mS cm^{-1})~~	50.9 ppt ~~ppM~~	
DO	(TOP)	59.0	(%)	– ppM
	(BOTTOM)	54.8	(%)	– ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
[illegible] mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL

All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 600 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	NO BENTHIC MATS
Benthic sample - replicate No $MgCO_3$	☒	

ABP006

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

Site Code R17YR **Site name** DOODLAKINE KUNUNDOPPING RD **Date** 20-09-06

Personnel MDS + BDS

Site details SIMILAR SAND OVER CLAY WETLAND & NO HABITAT DIVERSITY. FRINGING RIPARIAN VEG SURROUNDED BY PASTURE YELLOW BIOFILM ON SHORE LINE PHOTOGRAPHED. MINIMUM DETRITUS (< 0.01%)

Photo ~~1 bearing~~ (facing wetland) 17

Photo ~~2 bearing~~ (facing away from wetland) 18

Include fence dropper in foreground of each photo

19 YELLOW BIO FILM ON SHORE

Fence dropper placed? YES/NO
Location 120 m @ 300° FROM CAK TO DROPPER

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat
May need up to 10 quadrats in
Sparse macrophyte
1 ____
2 ____
3 ____
4 ____
5 ____

Water level 1 ____
Water level 2 ____
Water level 3 ____
Water level 4 ____
Water level 5 ____

Macrophyte sheet numbers ____

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

NO MACROPHYTE

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP007

Water Chemistry

Site Code R31YR **Site name** Boorde Ski Lake **Date** 20-09-06

Personnel MDS + BDS

Max depth of wetland 18cm

Max depth measured at ~100m water's edge, towards lake centre (~200m from public toilet)

pH		3.15	[H^+]	
Temperature		23.6	(°C)	
Conductivity		198,000	(µS cm^{-1})	ABOVE UPPER LIMIT ppM
DO	(TOP)	17.4	(%)	1.28 (mg L^{-1}) ppM
	(BOTTOM)	17.4	(%)	1.28 " ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 800 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	NO BENTHIC MATS
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP 007

Habitat

Site Code R31YR **Site name** Boondee Ski Lake **Date** 20-09-06

Personnel MOS + BOS

Site details very deep black organic layer of ooze under thin layer of sand. Orange-red epiphyte or algal material throughout wetland collected & photographed (photo # 22). Very hard salt crust ~50m offshore

Photo 1 ~~bearing~~ # (facing wetland) 20

Photo 2 ~~bearing~~ # (facing away from wetland) 21

Include fence dropper in foreground of each photo

Fence dropper placed? ~~YES~~ NO

Location GPS taken from "Welcome to Boondee Ski Lake" sign

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat 1 -
May need up to 10 quadrats in
Sparse macrophyte
2 -
3 -
4 -
5 -

Water level 1 -
Water level 2 -
Water level 3 -
Water level 4 -
Water level 5 -

Macrophyte sheet numbers NO MACROPHYTE

	Check (✓)	
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒	NO MACROPHYTE
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒ ✓	
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑	
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑	
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑	
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑	

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
		-	**Total species**		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP 008

Water Chemistry

Site Code 2L01 **Site name** Lockhart River Kwolyn Hill **Date** 20-9-06

Personnel BDS + MDS

Max depth of wetland 0.7m

Max depth measured at upstream of bridge ; depth @ gauge 0.04m

pH		5.64	$[H^+]$	
Temperature		20.2	(°C)	
Conductivity		6.95 mS cm^{-1} ~~(µS cm^{-1})~~	4.3 ppt ~~ppM~~	
DO	(TOP)	E3 error	(%)	— ppM
	(BOTTOM)	"	(%)	— ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
50 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 575 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	NO BENTHIC MATS
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
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Habitat

ABP008

Site Code LL01 Site name KWOLYIN HILL (LOCKHART R) Date 20-09-06

Personnel MDS + BDS . NOT A WETLAND BUT RIVERINE ADJ TO A BRIDGE, WEIR

Site details AND GAUGING STATION SAMPLED UPSTREAM. CONSTRUCTION RUBBLE (BOULDERS) DUMPED UPSTREAM. SAND SILT OVER CLAY C BLACK ORGANICS OCASSIONAL DEAD ACACIA STUMP ; MINIM HABITAT

Photo 1 ~~bearing~~ (facing wetland) # 23

Photo 2 ~~bearing~~ (facing away from wetland) # 24 & 25

Include fence dropper in foreground of each photo

Fence dropper placed? YES NO

Location FROM BRIDGE MARKER 4060

Macrophyte cover across wetland _____ %

Macrophyte height at quadrat 1 _____
May need up to 10 quadrats in 2 _____
Sparse macrophyte 3 _____
4 _____
5 _____

Water level 1 _____
Water level 2 _____
Water level 3 _____
Water level 4 _____
Water level 5 _____

Macrophyte sheet numbers _____

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

NO MACROPHYTE

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP 009

Water Chemistry

Site Code R12EM **Site name** TRAYNING RD (ACTUALLY FLEMING RD) **Date** 21-09-06

Personnel MDS & BDS

Max depth of wetland 9cm

Max depth measured at CENTRE OF WETLAND

NOTE: WETLAND ONLY 100m X 130m MAX

pH		3.47	[H^+]	
Temperature		17.7	(°C)	
Conductivity		117800	(µS cm^{-1})	ABOVE UPPER LIMITS ppM
DO	(TOP)	102.5	(%)	~~ppM~~ mg/l
	(BOTTOM)	102.5	(%)	~~ppM~~

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
50 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 800 mL Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	NO BENTHIC MAT
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABP009

Site Code R12EM **Site name** Trayning Rd **Date** 21-09-06

Personnel BDS + MDS

Site details Very shallow ~10cm ¢ ~100m x 130m wide. ~5m wide buffer melaleuca & Salmon gum (?) & few dead trees. Minimal habitat diversity. Sand/silt over clay. Yellow biofilm on margin

Photo 1 ~~bearing~~ (facing wetland) 26

Fence dropper placed? YES/~~NO~~
Location 7m @ 270° from car

Photo 2 ~~bearing~~ (facing away from wetland) 27
(Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat	**1**	—	**Water level 1** —
May need up to 10 quadrats in	**2**	—	**Water level 2** —
Sparse macrophyte	**3**	—	**Water level 3** —
	4	—	**Water level 4** —
	5	—	**Water level 5** —

Macrophyte sheet numbers NO MACROPHYTE

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒ NO MACROPHYTE
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒ NO MACROPHYTE
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP 010

Water Chemistry

Site Code R13EM **Site name** Lackman Rd **Date** 21-09-06

Personnel BDS + MOS

Max depth of wetland 6cm

Max depth measured at ~50m towards centre of wetland from fence dropper

pH		3.55 [H^+]	
Temperature		23.4 (°C)	
Conductivity		207mScm^{-1} ~~(µScm^{-1})~~	ABOVE LIMIT ppM
DO	**(TOP)**	23.1% (E) (%)	1.79mgL^{-1} (E) ppM
	(BOTTOM)	" (%)	" ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)
Water column sample	☑
Benthic sample Place 2 drops of $MgCO_3$ with sample	☑
Benthic sample - replicate No $MgCO_3$	☑

Volume filtered 550 **mL**
Default = 500 mL

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP010

Habitat

Site Code RBEM **Site name** LACKMAN RD **Date** 21-09-06

Personnel MDS & BDS

Site details SHALLOW SALINE WETLAND; SALT CRUST OVER SAND OVER CLAY & BLACK ORGANICS; WATER RECEDED FROM SHORELINE, MINIMUM RIPARIAN; MINIMUM HABITAT DIVERSITY

Photo 1 ~~bearing~~ (facing wetland) 28 #30,31,32 **Fence dropper placed?** YES/NO

Photo 2 ~~bearing~~ (facing away from wetland) 29 BENTHIC CHLOROPHYLL SAMPLE **Location** 65m@070° FROM CAR TO STAKE

Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat	1	**Water level**	1
May need up to 10 quadrats in	2		2
Sparse macrophyte	3		3
	4		4
	5		5

Macrophyte sheet numbers

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒ NO MACROPHYTE
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABP020 SMJ 19/7/07

Site Code R6NM **Site name** _____ **Date** 22-6-09

Personnel J. COCKING + H. BARRON

Site details _____

Photo 1 bearing (facing wetland) 14

Fence dropper placed? YES/NO
Location used existing post

Photo 2 bearing (facing away from wetland) 15
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat 1 _____
May need up to 10 quadrats in Sparse macrophyte
2 _____
3 _____
4 _____
5 _____

Water level 1 _____
Water level 2 _____
Water level 3 _____
Water level 4 _____
Water level 5 _____

Macrophyte sheet numbers _____

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☐ N/A
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☐
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE OBSERVED.					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP020 SMJ 19/7/07

Water Chemistry

Site Code R6NM **Site name** _____ **Date** 22-6-09

Personnel J. COCKING + H. BARRON

Max depth of wetland 40 cm

Max depth measured at MIDDLE (see diagram)

pH		4.28	$[H^+]$	
Temperature		18.4	(°C)	
Conductivity		61.2	(mS cm^{-1})	30.7 ppT
DO	~~(TOP)~~	93.1	(%)	8.49 ppM
	~~(BOTTOM)~~		(%)	ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL

All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)
Water column sample	☑
Benthic sample Place 2 drops of $MgCO_3$ with sample	☑
Benthic sample - replicate No $MgCO_3$	☑

Volume filtered 500 mL
Default = 500 mL

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP019 SMS 19/7/07

Habitat

Site Code R5NM **Site name** _____ **Date** 22-9-06

Personnel HJB JSC

Site details Site is very ~~shallow~~, no macrophytes. Will be dry in several days.

Photo 1 bearing (facing wetland) 7 NIKON

Photo 2 bearing (facing away from wetland) 8 NIKON
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Fence dropper placed? (YES) NO
Location South of lat-long by 20 m. (lat long taken on road, dropper close to trees).

Macrophyte height at quadrat 1			Water level 1	
May need up to 10 quadrats in	2		Water level 2	
parse macrophyte	3		Water level 3	
	4		Water level 4	
	5		Water level 5	

Macrophyte sheet numbers _____

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☐
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☐
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP019 SMJ 19/7/07

Water Chemistry

Site Code R5NM **Site name** _____ **Date** 22-9-06

Personnel HJB JSC

Max depth of wetland 10cm

Max depth measured at NE of middle see map.

pH		7.28	[H^+]	
Temperature		19.1	(°C)	
Conductivity		156.9	mS (~~µS~~ cm^{-1})	74.4 ppM
DO	(TOP)	81.9	(%)	7.40 ppM
	(BOTTOM)		(%)	ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
[illegible]0 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
[illegible]0 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 500 mL Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☑	
Benthic sample - replicate No $MgCO_3$	☑	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABP018 SMJ 19/7/07

Site Code R4NM **Site name** _____ **Date** 21-9-06

Personnel HJB, JSC + GOD

Site details _____

Photo 1 bearing (facing wetland) NIKON 001 **Fence dropper placed?** YES/NO
Location _____

Photo 2 bearing (facing away from wetland) NIKON 002
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat	1	0	**Water level 1** 0
lay need up to 10 quadrats in	2		**Water level 2**
Sparse macrophyte	3		**Water level 3**
	4		**Water level 4**
	5		**Water level 5**

Macrophyte sheet numbers _____

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP 018 SMJ 19/7/07

Water Chemistry

Site Code RANM **Site name** _____ **Date** 21-9-06.

Personnel HSB JSC

Max depth of wetland 20cm

Max depth measured at Middle

pH		7.53	[H^+]	
mperature		23.1	(°C)	
Conductivity		103.4 mS ~~(µS cm⁻¹)~~	51.9 ppt	~~ppM~~
DO	(TOP)	~~P~~ 94.0	(%)	7.75 ppM
	(BOTTOM)		(%)	ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 625 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☑	
Benthic sample - replicate No $MgCO_3$	☐	~~Unable to do due to filter paper.~~

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABPOT

Site Code YY6 **Site name** Beverly Ski Lake **Date** 26-09-06

Personnel BDS + MDS

Site details Active ski lake, super-abundance of ostracods washed up on shore, few dead trees on margin

Photo 1 ~~bearing~~ # (facing wetland) 50

Photo 2 ~~bearing~~ # (facing away from wetland) 51

Include fence dropper in foreground of each photo

Fence dropper placed? ~~YES~~/NO

Location Photo taken @ sign

Macrophyte cover across wetland 90 %

Macrophyte height at quadrat	1	25cm	**Water level 1** 30cm
Try need up to 10 quadrats in	2	15cm	**Water level 2** 30cm
Sparse macrophyte	3	~~#~~ 7cm	**Water level 3** 50cm
	4	8 cm	**Water level 4** 50 cm
	5	7 cm	**Water level 5** 50cm

Macrophyte sheet numbers YY6 (2 sheets)

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☑
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☑
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
Grey Teal	50				
Silver Gull	5				
Shelduck	12				
Wood duck	1				
Black-fronted dotterel	1				
			Total species	5	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Water Chemistry ABP017

Site Code YY6 **Site name** SKI LAKE **Date** 26.09.06

Personnel MDS BDS

Max depth of wetland 1.35

Max depth measured at DEPTH GAUGE

pH		9.32	[H^+]	
Temperature		19.5	(°C)	
Conductivity		46400	($\mu S\ cm^{-1}$)	33.7 ppM T
DO	(TOP)	137.6	(%)	ppM
	(BOTTOM)	166.3	(%)	14.71 ~~ppM~~ mg/l DT

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)
Water column sample	☑
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒
Benthic sample - replicate No $MgCO_3$	☒

Volume filtered 800 mL
Default = 500 mL

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABP016

Site Code YY1 Site name Western Shore Channel Lakes Date 26/09/06

Personnel BDS + MDS

Site details Large, "deep" lake; sandbar breaking off a couple of smaller lakes; very low-lying scrub fringing lake; ~50m wide riparian strip on western border of lake

Photo 1 ~~bearing~~ # (facing wetland) 47

Fence dropper placed? (YES) ~~NO~~
Location 120m @ bearing 120° from car

Photo 2 ~~bearing~~ # (facing away from wetland) 48
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat		Water level
May need up to 10 quadrats in	1 –	Water level 1 –
Sparse macrophyte	2 –	Water level 2 –
	3 –	Water level 3 –
	4 –	Water level 4 –
	5 –	Water level 5 –

Macrophyte sheet numbers NO MACROPHYTE

	Check (✓)	
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒	NO MACROPHYTE
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒	
Invertebrate 250 µm sample 3 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑	
Zooplankton 50 µm sample 3 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑	
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑	
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑	

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
PBD	1	0			
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Water Chemistry

ABP016

Site Code YY1 Site name Western Shore Channel Lakes Date 26/09/06

Personnel BDS + MDS

Max depth of wetland 80 cm

Max depth measured at ~50-100m off "shore" of large lake

pH		7.75 [H^+]	
Temperature		20.2 (°C)	
Conductivity		160,400 (µS cm^{-1})	7.76 ppt ~~ppm~~
DO	(TOP)	300 (E7 error) (%)	28.1 mgL^{-1} (E7 error) ~~ppm~~
	(BOTTOM)	258 (") (%)	23.3 mgL^{-1} (") ~~ppm~~

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 675 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	NO BENTHIC MATS
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABR015

Site Code YY8 **Site name** _____ **Date** 26-09-06

Personnel MDS BDS

Site details SMALL WETLAND IN SYSTEM ; PASTURE ON ONE SIDE ; OTHER WETLANDS ON OTHER ; EVIDENCE OF ALGAL BLOOM ON MARGIN ; EXTENSIVE BED OF SUBMERGED MACROPHYTE . SILT , SOIC OVER ORGANICS

Photo 1 ~~bearing~~ (facing wetland) 44

Photo 2 ~~bearing~~ (facing away from wetland) 45
Include fence dropper in foreground of each photo

Fence dropper placed? YES (NO)
Location EXISTING FENCE POST

46 QUADRAT & MACROPHYTE

Macrophyte cover across wetland _____ %

Macrophyte height at quadrat	1	4 CM	**Water level 1** 9 CM
May need up to 10 quadrats in Sparse macrophyte	2	4 CM	**Water level 2** 9 9CM
	3	4 CM	**Water level 3** 9 CM
	4	4 CM	**Water level 4** 9 CM
	5	4 CM	**Water level 5** 9 CM

Macrophyte sheet numbers YY8

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	✓
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	✓
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	✓
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	✓
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	✓
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	✓

BUT LAKE BED MUCH FIRMER THAN OTHER ORGANIC LAKES SAMPLED PREVIOUS. 5-10m BUFFER OF RIPARIAN ON PASTURE EDGE

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
GREY TEAL	13				
SHELL DUCK	1				
SILVER GULL	1				
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Water Chemistry ABP015

Site Code YAB **Site name** _____ **Date** 26-09-06

Personnel BDS & MDS

Max depth of wetland 14cm

Max depth measured at centre of lake

pH		7.92	[H^+]	
Temperature		13.1	(°C)	
Conductivity		26,900	(µS cm^{-1})	18.2 ppt ~~ppM~~
DO	(TOP)	67.5	(%)	6.7 mgL^{-1} ~~ppM~~
	(BOTTOM)	"	(%)	" " ~~ppM~~

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 800 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	NO BENTHIC MATS
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP014

Habitat

Site Code YY10 **Site name** _____ **Date** 25-09-06

Personnel BOS & MDS

Site details Surrounded by clear paddocks, Small strand of riparian veg fringing, numerous dead trees in water

Photo 1 ~~bearing~~ (facing wetland) # 42

Photo 2 ~~bearing~~ (facing away from wetland) # 43

Include fence dropper in foreground of each photo

Fence dropper placed? ~~YES~~/NO

Location GPS & Photos taken from small "stepping-stone" jetty

Macrophyte cover across wetland 0 %

crophyte height at quadrat	**1**		**Water level 1**
lay need up to 10 quadrats in	**2**		**Water level 2**
Sparse macrophyte	**3**		**Water level 3**
	4		**Water level 4**
	5		**Water level 5**

Macrophyte sheet numbers NO MACROPHYTE

	Check (✓)	
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒	NO MACROPHYTE
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒	
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑	
oplankton 50 µm sample J m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑	
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑	
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑	

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
GREY TEAL	90	0			
Shellduck	4	0			
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Water Chemistry

ABD014

Site Code YY10 **Site name** _____ **Date** 25-09-06

Personnel MDS & BDS

Max depth of wetland 70

Max depth measured at ~50 FROM BEACH

pH		8.75	[H^+]	
Temperature		20.5	(°C)	
Conductivity		28500	(µS cm^{-1})	Sal 19.7 ppt
DO	(TOP)	116.8	(%)	_____ ppM
	(BOTTOM)	120.5	(%)	_____ ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
) mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 600 mL Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	] NO MATS
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABP013

Site Code YL1 **Site name** Lake Yenyenning **Date** 25/9/06

Personnel BDS + MDS

Site details Surrounded by pasture. Rimmed by vegetated sand dune & within cleared basin. Few dead trees in water. Riparian in good condition

Photo 1 ~~bearing~~ (facing wetland) # 40

Photo 2 ~~bearing~~ (facing away from wetland) # 41

Include fence dropper in foreground of each photo

Fence dropper placed? YES NO

Location 180m @ 0°(N) to dropper from car

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat	1	—	**Water level 1** —
May need up to 10 quadrats in	2	—	**Water level 2** —
Sparse macrophyte	3	—	**Water level 3** —
	4	—	**Water level 4** —
	5	—	**Water level 5** —

Macrophyte sheet numbers NO MACROPHYTE

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒ NO MACROPHYTE
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats reserve in 100% ethanol, store in 2 L pot	☑
oplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
Grey Teal	207	0			
Shelduck	25	0			
Red-necked Avocet	80	0			
Black-winged Stilt	3	0			
			Total species	4	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP013

Water Chemistry

Site Code YL 1 **Site name** LAKE YENYENNING **Date** 25-09-06

Personnel MDS BDS

Max depth of wetland 27 cm

Max depth measured at CENTRE WETLAND

(		8.11	[H^+]	
Temperature		22.4	(°C)	
Conductivity		84400	(µS cm^{-1})	ppM
DO	(TOP)	124	(%)	10.26 ppM mg/l
	(BOTTOM)	122	(%)	10.10 ppM mg/l

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 750 mL (Default = 500 mL)
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	NO BENTHIC MAT.
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABP012

Site Code R2NM Site name Dowerin- Kalannie Rd Date 22-09-06

Personnel BDS + MDS

Site details 80-100m diameter circular lake. Homogeneous sand over clay substrate No habitat diversity. No overhanging veg. Small shrubs & a few trees surrounding wetland. Large ~~beds~~ of detritus. Rock-hard salt layer in centre of lake.

Photo 1 ~~bearing~~ # (facing wetland) 38

Fence dropper placed? YES (NO)

Location Photos + GPS taken from reflective marker on road

Photo 2 ~~bearing~~ (facing away from wetland) 39

Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat	1	–	Water level 1 –
May need up to 10 quadrats in	2	–	Water level 2 –
Sparse macrophyte	3	–	Water level 3 –
	4	–	Water level 4 –
	5	–	Water level 5 –

Macrophyte sheet numbers NO MACROPHYTE

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒ NO MACROPHYTE
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Water Chemistry ABP012

Site Code R21N/M **Site name** Dowerin - Kalannie Rd **Date** 22-09-06

Personnel BOS + MDS

Max depth of wetland 50cm

Max depth measured at centre of wetland (~40m west of road)

---

pH		2.69	[H^+]	
Temperature		15.1	(°C)	
Conductivity		205 mS cm^{-1} ~~(uS cm^{-1})~~	ABOVE LIMIT	ppM
DO	(TOP)	102.5 (E7 error)	(%)	11.67 mg L^{-1} (E7 error) ppM
	(BOTTOM)	117.3 (")	(%)	10.66 mg L^{-1} (") ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
) mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 600 mL (Default = 500 mL)
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	NO BENTHIC MAT
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABP011

Site Code RKEM **Site name** Gamble Rd **Date** 21-09-06

Personnel BOS + MOS

Site details Evidence of recent algal bloom: dried-out algae in sheets in fringing riparian bushes. Very deep (~75cm); extremely windy & turbid

Photo 1 ~~bearing~~ (facing wetland) # 33 **Fence dropper placed?** ~~YES~~/NO

Location Pink tape tied to existing fence post

Photo 2 ~~bearing~~ (facing away from wetland) # 34

Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat	**1**	—	**Water level 1** —
May need up to 10 quadrats in	**2**	—	**Water level 2** —
Sparse macrophyte	**3**	—	**Water level 3** —
	4	—	**Water level 4** —
	5	—	**Water level 5** —

Macrophyte sheet numbers — NO MACROPHYTE

Check (✓)

Macrophyte biomass collected
5 x 25 cm square quadrats, store in calico bags ☒ } NO MACROPHYTE

Macrophyte species collected and photographed
Press each specimen
Preserve sample in 100% ethanol, store in large zip-lock bags ☒

Invertebrate 250 µm sample
50 m over 200 m, sweep sediments, all habitats
Preserve in 100% ethanol, store in 2 L pot ☑

Zooplankton 50 µm sample
50 m over 200 m, DO NOT sweep sediments, all habitats
Preserve in 4% formalin, store in 120 mL polycarb vials ☑

Phytoplankton 35 µm sample
10 m tow, all habitats
Preserve in 1.5 mL Lugols (weak tea), store in square vials ☑

Diatoms collected
Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes
Preserve in 4% formalin, store in McCartney vial ☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
NONE					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Water Chemistry

ABP011

Site Code R14EM Site name GAMBLE RD Date 21-09-06

Personnel MAS & BAS

Max depth of wetland 75cm

Max depth measured at 30m OUT TO CENTRE OF WETLAND FROM WATER LINE

pH		3.16	[H^+]	
Temperature		19.5	(°C)	
Conductivity		121900	($\mu S\ cm^{-1}$)	UPPER LIMITS ppM
DO	(TOP)	68.5	(%)	5.89 ppM mg/lt
	(BOTTOM)	66.3	(%)	5.67 ppM mg/lt

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
0 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 500 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

GOVERNMENT OF WESTERN AUSTRALIA

Habitat ABP027

Site Code RSMCR **Site name** ______ **Date** 25-9-06

Personnel M. Bacon and J. Cocking

Site details ______

Photo 1 bearing (facing wetland) 145

Fence dropper placed? YES/~~NO~~ (NO circled)
Location Use solar pump.

Photo 2 bearing (facing away from wetland) 152
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 70 %

Macrophyte height at quadrat 1	35	**Water level 1**	30
May need up to 10 quadrats in **2**	35	**Water level 2**	30
Sparse macrophyte **3**	5	**Water level 3**	30
4	15	**Water level 4**	30
5	35	**Water level 5**	30

Macrophyte sheet numbers ______

Check (✓)

Macrophyte biomass collected ☑
5 x 25 cm square quadrats, store in calico bags

Macrophyte species collected and photographed ☑ photo 149 - 151
Press each specimen
Preserve sample in 100% ethanol, store in large ziplock bags

Invertebrate 250 µm sample ☑
50 m over 200 m, sweep sediments, all habitats
Preserve in 100% ethanol, store in 2 L pot

Zooplankton 50 µm sample ☑
50 m over 200 m, DO NOT sweep sediments, all habitats
Preserve in 4% formalin, store in 120 mL polycarb vials

Phytoplankton 35 µm sample ☑
10 m tow, all habitats
Preserve in 1.5 mL Lugols (weak tea), store in square vials.

Diatoms collected ☑
Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes
Preserve in 4% formalin, store in McCartney vial

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
Black Swan	4				
White Face Heron	3				
			Duck ...		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Water Chemistry

ABP027

Site Code B4LR **Site name** _____ **Date** 25-9-06

Personnel HJB JSC

Max depth of wetland 30 cm

Max depth measured at anywhere

pH		9.99	[H^+]	
Temperature		25.1	(°C)	
Conductivity		31.3	(mS cm^{-1})	15.6 ppt
DO	(TOP)	177.1	(%)	14.0 ppM
	(BOTTOM)		(%)	ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
[illegible] mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL

All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 500 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	
Benthic sample - replicate No $MgCO_3$	☒	

Habitat

Site Code: [illegible] Site name: [illegible] NTH Date 25-9-06

Personnel: [illegible]

Site details: [illegible]

Photo 1 bearing (facing wetland) 141 Fence dropper placed? YES/NO

Location

Photo 2 bearing (facing away from wetland) 142

Include fence dropper in foreground of each photo

Macrophyte cover across wetland 80 % (of area sampled)

Macrophyte height at quadrat		Water level 1	70
May need up to 10 quadrats in	2 40	Water level 2	70
Sparse macrophyte	3 30	Water level 3	60
	4 15	Water level 4	50
	5 15	Water level 5	55

Macrophyte sheet numbers

	Check (✓)	
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☑	
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☑	143, 144 photos
Invertebrate 250 µm sample 50 m over 200 m², sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑	
Zooplankton 50 µm sample 50 m over 200 m², DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑	
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak iod), store in square vials	☑	
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑	

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
Black Swans	43		Hoary Heads	41	
Eurasian Coot	570		Musk Duck	1	
Hard Heads	180		Int Egret	3	
Grey Teal	390		Silver Wing Gull	1	
Shell duck	36		Straw Neck	1	
Pink ear	5		[illegible] species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP026

Water Chemistry

Site Code R35LR **Site name** KURRENKUTTEN **Date** 25-9-06

Personnel HSB JSC

Max depth of wetland 1.10

Max depth measured at _____

pH		10.15	[H^+]	
Temperature		19.3	(°C)	
Conductivity		27.9	(mS cm^{-1})	14.0 ppt
DO	(TOP)	125.9	(%)	11.29 ppM
	(BOTTOM)	152.6	(%)	13.92 ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
[illegible] mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)
Water column sample	☑
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒
Benthic sample - replicate No $MgCO_3$	☒

Volume filtered 500ml mL
Default = 500 mL

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP025

Habitat

Site Code R37LR **Site name** KONDININ LAKE STH **Date** 24-9-06

Personnel H. BARRON + J. COCKING

Site details Approx 5 km E of Kondinin Townsite on southern edge of Kondinin Lake.

Photo 1 bearing (facing wetland) 130 **Fence dropper placed?** (YES)/NO
Location

Photo 2 bearing (facing away from wetland) 131
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 80 %

Macrophyte height at quadrat	1	10	**Water level 1** 25
May need up to 10 quadrats in	2	20	**Water level 2** 50
Sparse macrophyte	3	20	**Water level 3** 30
	4	10	**Water level 4** 50
	5	20	**Water level 5** 50

Macrophyte sheet numbers 3a, 3b, 4a, 4b PHOTO 132-134, 140

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☑
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☑
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
Black Swan	277		Hard Head Duck	10	
Grey Teal	420		Hoary Headed Grebe	7	
Shell Duck	84		Eurasian Coote	745	
Musk Duck	3		White Face Heron	14	
Black Duck	1		Silver Gull	2	
Australian Shoveller Duck	18		**Total species** 12		
Whistling Kite	3				

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP025

Water Chemistry

Site Code R37LR **Site name** KONDININ LAKE STH **Date** 24-9-06

Personnel J. COCKING + H. BARRON

Max depth of wetland 80 cm (in sample 2002)

Max depth measured at 60 m N of Peg

pH		8.93	[H^+]	
Temperature		16.2	(°C)	
Conductivity		36.9	(mS cm^{-1})	18.2 ppt
DO	(TOP)	92.1	(%)	8.72 ppM
	(BOTTOM)	89.3	(%)	8.43 ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
0 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 500 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☑	
Benthic sample - replicate No $MgCO_3$	☑	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat ABP024

Site Code R40cR **Site name** Lake Counter **Date** 24-9-06

Personnel H. Berron + J. Cocking

Site details

Photo 1 bearing (facing wetland) # 69

Fence dropper placed? YES/NO
Location 30 m Sth of boat access.

Photo 2 bearing (facing away from wetland) # 70
Include fence dropper in foreground of each photo

Macrophyte cover across wetland _____ %

Macrophyte height at quadrat 1 _____
May need up to 10 quadrats in 2 _____
Sparse macrophyte 3 _____
4 _____
5 _____

Water level 1 _____
Water level 2 _____
Water level 3 _____
Water level 4 _____
Water level 5 _____

Macrophyte sheet numbers _____

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☒ NA
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☒ NA
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP024

Water Chemistry

Site Code R40CR **Site name** LAKE GOUNTER **Date** 24-9-08

Personnel HJR JSZ

Max depth of wetland 40cm

Max depth measured at Depth gauge.

pH		2.65	[H^+]		
Temperature		22.7	(°C)		
Conductivity		191.3	(~~µS~~ mS cm^{-1})	96.1	ppM
DO	(TOP)	92.8	(%)	7.8	ppM
	(BOTTOM)		(%)		ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and ~~refrigerated~~ frozen

	Check (✓)	
Water column sample	☑	**Volume filtered** 500 mL Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☐	
Benthic sample - replicate No $MgCO_3$	☐	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABP023 SMJ 19/7/07

Site Code R39CR **Site name** GRAHAM ROCK LAKE **Date** 24-9-06

Personnel JSC + HJB

Site details

Photo 1 bearing (facing wetland) 54

Photo 2 bearing (facing away from wetland) 55
Include fence dropper in foreground of each photo

Fence dropper placed? YES/NO
Location NOT NEEDED
USE "HUMPY" PICKETS.

Macrophyte cover across wetland 1 %

Macrophyte height at quadrat 1 20 cm
May need up to 10 quadrats in 2 30 cm
Sparse macrophyte 3 20 cm
4 20 cm
5 20 cm

Water level 1 25 cm
Water level 2 25 cm
Water level 3 25 cm
Water level 4 25 cm
Water level 5 25 cm

Macrophyte sheet numbers R39CR2a + 2b

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☑
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☑
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
HOODED PLOVER	2	PAIR			
BLACK WINGED STILT	1	IMM.			
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Water Chemistry ABP023 SMJ 19/7/07

Site Code R39CR **Site name** GRAHAM ROCK LAKE **Date** 24-9-06

Personnel HSB JSC

Max depth of wetland 1.50

Max depth measured at Middle

pH		7.86	[H^+]	
Temperature		17.8	(°C)	
Conductivity		120.4 mS (~~mS~~ cm^{-1})	59.7	ppt
DO	(TOP)	102.5 (%)	9.40	ppM
	(BOTTOM)	103.4 (%)	9.53	ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 500 ml mL Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

Habitat

ABP022 SMJ 19/7/07

Site Code LC18 **Site name** _____ **Date** 23-9-06

Personnel JSC + HJB

Site details _____

Photo 1 bearing (facing wetland) 36 **Fence dropper placed?** YES/NO
Location _____

Photo 2 bearing (facing away from wetland) 37
Include fence dropper in foreground of each photo

Macrophyte cover across wetland < 1.0 %

Macrophyte height at quadrat

May need up to 10 quadrats in
Sparse macrophyte

1	–	6	–	Water level 1	20 cm	6	30 cm
2	–	7	30 cm	Water level 2	20 cm	7	30 cm
3	–	8	–	Water level 3	30 cm	8	30 cm
4	30 cm	9	–	Water level 4	30 cm	9	10 cm
5	–	10	–	Water level 5	30 cm	10	10 cm.

Macrophyte sheet numbers _____

	Check (✓)	
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☑	< 1 % cover 10 throws
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☑	Photos : 38-41
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑	
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑	
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑	
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑	

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
None observed					
			Total species		

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP022 SMJ 19/7/07

Water Chemistry

Site Code LC18 **Site name** _____ **Date** _____

Personnel JSC + HJB

Max depth of wetland 70 cm

Max depth measured at _____

_____

pH		3.74	[H^+]	
Temperature		22.5	(°C)	
Conductivity		68.5	(mS cm^{-1})	34.1 ppM T
DO	(TOP)	103.2	(%)	8.98 ppM
	(BOTTOM)	84.6	(%)	7.45 ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 500 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	N/A
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
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Habitat

ABP021 SMJ 19/7/07

Site Code R7NM **Site name** _____ **Date** 22-9-06

Personnel HJB JSC

Site details _____

Photo 1 bearing (facing wetland) Nikon 17

Fence dropper placed? YES/NO
Location 10 m in from road.

Photo 2 bearing (facing away from wetland) Nikon 18
Include fence dropper in foreground of each photo

Macrophyte cover across wetland 0 %

Macrophyte height at quadrat 1 _____
May need up to 10 quadrats in 2 _____
Sparse macrophyte 3 _____
4 _____
5 _____

Water level 1 _____
Water level 2 _____
Water level 3 _____
Water level 4 _____
Water level 5 _____

Macrophyte sheet numbers —

	Check (✓)
Macrophyte biomass collected 5 x 25 cm square quadrats, store in calico bags	☐ X
Macrophyte species collected and photographed Press each specimen Preserve sample in 100% ethanol, store in large zip-lock bags	☐ X
Invertebrate 250 µm sample 50 m over 200 m, sweep sediments, all habitats Preserve in 100% ethanol, store in 2 L pot	☑
Zooplankton 50 µm sample 50 m over 200 m, DO NOT sweep sediments, all habitats Preserve in 4% formalin, store in 120 mL polycarb vials	☑
Phytoplankton 35 µm sample 10 m tow, all habitats Preserve in 1.5 mL Lugols (weak tea), store in square vials	☑
Diatoms collected Scrape spoon across any obvious benthic mats, sticks, rocks, substrate and macrophytes Preserve in 4% formalin, store in McCartney vial	☑

Waterbird species	Abund.	Broods	Waterbird species	Abund.	Broods
X					
			Total species-		

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ABP021 SMJ 19/7/07

Water Chemistry

Site Code R7NM **Site name** _____ **Date** 22-9-06

Personnel HSB JSC

Max depth of wetland 25cm

Max depth measured at middle.

pH		2.56	[H^+]		
Temperature		24.5	(°C)		
Conductivity		113.4	(µS cm^{-1})	56.5	ppt
DO	(TOP)	96.1	(%)	7.72	ppM
	(BOTTOM)		(%)		ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
250 mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 500 mL (Default = 500 mL)
Benthic sample Place 2 drops of $MgCO_3$ with sample	☒	No mat present.
Benthic sample - replicate No $MgCO_3$	☒	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ND001: Baselining Wetland Diversity in the Avon

ABP028

Water Chemistry

Site Code YY14 **Site name** _____ **Date** 26-9-06

Personnel HSB JSC

Max depth of wetland 50cm

Max depth measured at middle.

pH		8.08	[H^+]	
Temperature		23.4	(°C)	
Conductivity		115.6	(µS cm^{-1})	57.9 ~~ppM~~ ppT
DO	(TOP)	92.4	(%)	7.81 ppM
	(BOTTOM)		(%)	ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
[illegible] mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 500 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☐	
Benthic sample - replicate No $MgCO_3$	☐	

DEPARTMENT OF ENVIRONMENT AND CONSERVATION
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ABP029

Water Chemistry

Site Code YY3 **Site name** Rocky Lake **Date** 26-9-06

Personnel H. Berron + J. Cocking

Max depth of wetland 1.5 m

Max depth measured at ≈150m N of jetty.

pH		9.63	[H^+]		
Temperature		22.6	(°C)		
Conductivity		61.6	(µS cm^{-1})	30.9 ~~ppM~~ PPT	
DO	(TOP)	12 ~~23~~	(%)	135.7	ppM
	(BOTTOM)	12.54	(%)	138.0	ppM

*TOP measurements 15 cm below water surface
*BOTTOM measurements ~ 8 cm above sediment

	Check (✓)
125 mL water sample, filtered and frozen Nutrients	☑
250 mL water sample, acid-wash bottles, filtered Chem centre metals analysis	☑
) mL water sample, acid-wash bottles, filtered DoW trace metals analysis	☑
500 mL water sample, unfiltered Ionic composition	☑

CHLOROPHYLL
All samples to be placed in a snap-lock bag and refrigerated

	Check (✓)	
Water column sample	☑	**Volume filtered** 500 **mL** Default = 500 mL
Benthic sample Place 2 drops of $MgCO_3$ with sample	☑	
Benthic sample - replicate No $MgCO_3$	☑	